Memo

To: Michael Traffalis, PE Project: SE1016011

Western Federal Lands Highway Division

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Through: Brian Wacker, PE

Robert Peccia & Associates, Inc.

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Date: November 10, 2011

Subject: Data Report

Task Order No. T-11-004, IDIQ Contract No. DTFH70-10-D-00016

Avery Landing, ID PFH 50(9)

Dear Mr. Traffalis:

This report summarizes the results of field studies conducted on the Federal Highway Administration right-of-way at the former Avery Landing Railroad Yard site. AMEC Geomatrix, Inc. (AMEC), under contract with Robert Peccia and Associates, conducted the investigation on behalf of the Federal Highway Administration (FHWA), Western Federal Lands Highway Division (WFLHD), to assess the extent of petroleum contamination on the FHWA right-of-way. The work was conducted as part of FHWA's collaboration with the United States Environmental Protection Agency (EPA) to carry out additional testing and cleanup of contamination on the FHWA-owned areas within the former Avery Landing railroad yard (site). The investigation was carried out in accordance with the FHWA Right-of-Way Investigation Work Plan (work plan) (AMEC, 2011).

The Avery Landing site is located in the St. Joe River Valley in the Bitterroot Mountains in northern Idaho, 1 mile west of the town of Avery in Shoshone County (Figure 1). The site is directly adjacent to the St. Joe River, which abuts the site to the south, and includes a portion of U.S. Forest Highway 50 to the north. The site is located within the northeast quarter of Section 16, Township 45 North, Range 5 East Boise Meridian (B.M.), and the northwest corner of Section 15, Township 45 North, Range 5 East. B.M.

1.0 BACKGROUND

The EPA has identified contamination of soils and groundwater in an area along the St. Joe River in Idaho historically known as the Avery Landing Railway Yard. Soil and groundwater at the site are known to contain petroleum hydrocarbons and other hazardous substances (primarily related to hydrocarbon impacts), apparently associated with the site's historical use as a railroad roundhouse

AMEC Environment & Infrastructure 600 University Street, Suite 600 Seattle, Washington USA 98101-4107 Tel (206) 342-1760 Fax (206) 342-1761 www.amec.com Memo November 10, 2011 Page 2 of 9

and maintenance facility. Petroleum hydrocarbons at the site are discharging to the St. Joe River in violation of the Clean Water Act. In addition, substances regulated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) have been found on non-FHWA portions of the site. A plume of light nonaqueous phase-liquid (LNAPL) extends from the northern edge of the site toward the St. Joe River. Releases to the St. Joe River have occurred and are still occurring as a result of migration of petroleum hydrocarbons. The petroleum constituents consist primarily of petroleum hydrocarbons in the diesel and Bunker oil range. These petroleum constituents are present on property owned by the FHWA along Forest Highway 50, but the extent of impacts on FHWA property was previously unknown.

An Engineering Evaluation/Cost Analysis (EE/CA) for cleanup of the Avery Landing site included a detailed discussion of the site history and environmental impacts (Ecology and Environment, Inc., 2010). A brief summary of the background and current conditions at the site based on that report is presented below.

1.1 Property History

The current layout of the site is shown on Figure 2. Most of the former Avery Landing site is currently owned by Potlatch Forest Products Corporation and by Larry Bentcik and Ethel Bentcik, private landowners. The United States of America (US) owns the northernmost contamination site within the Forest Highway 50 right-of-way. Additionally, a small track of land to the north of the US lands is where the majority of the fuel tank resided and has documented contamination. These lands are owned by Bearmouth Logging, Inc. The entire area was used as a switching and maintenance facility for the Chicago, Milwaukee, St. Paul, and Pacific Railroad (Milwaukee Railroad) from 1907 until 1977. The Milwaukee Railroad operated electric locomotives from the mid-1910s until the mid-1970s, and the facility was located at the end of an electric rail line from the east. The facility included structures associated with railroad operations, including a turntable, roundhouse, machine shop, fan house, engine house, boiler house, storehouses, coal dock, oil tanks, a pump house, and other aboveground structures. Activities included refueling locomotives, using solvents to clean engine parts, cleaning locomotives, and maintaining equipment. The Avery facility was used to switch trains to fuel oil and/or diesel locomotives. Fuel oil was stored on site in a 500,000-gallon aboveground storage tank previously located at the northern edge of the site, immediately north of the current Forest Highway 50.

From 1973 to 1980, Potlatch Corporation leased portions of the site from the Milwaukee Railroad (renamed the CMC Real Estate Company), then acquired the western portion (Section 16) of the site in 1980. Potlatch Corporation leveled and graded the property and then used it for temporary log storage. Portions of the property have also been leased to other tenants for log storage, parking, and trailer storage. All buildings and equipment associated with the former railroad maintenance facility were demolished after Milwaukee Railroad ceased operations, but it is unknown when or by whom. In 2005, Potlatch Corporation transferred the site to Potlatch Forest Products Corporation (Potlatch). The eastern portion reverted to Causette Posey, then purchased by Larry Bentcik and Ethel Bentcik, the current owners, in 1996.

FHWA acquired the original railroad grade along the northern edge of the site for use in the construction and expansion of Forest Highway 50. A portion of the site extends to the shoulder north of the highway, where a former 500,000-gallon aboveground fuel tank was located. Potlatch

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Corporation in the late 80s removed and disposed of the fuel tank and any remaining contents. Potlatch Corporation has conducted several interim remedial activities on site. Beginning in 1994, Potlatch Corporation captured groundwater and free LNAPL in trenches installed along the St. Joe River. From 1994 until 2000, the untreated groundwater was processed through an oil/water separator and then re-injected through a re-infiltration trench running along the north side of Forest Highway 50.

1.2 Previous Investigations

Soil and groundwater characterization has been performed at the site during several previous investigations, including, most recently, an EPA Removal Assessment (Ecology and Environment, Inc., 2007) and field investigations conducted by Potlatch (Golder, 2009, 2010). The results of these and former investigations are summarized in the EE/CA (Ecology and Environment, Inc., 2010). Field work for the EE/CA was performed by Potlatch under a 2008 Administrative Settlement Agreement and Order on Consent (ASAOC) with EPA (EPA, 2008) (Golder, 2009, 2010).

During the field investigations in 2007 and 2009, trace concentrations of polychlorinated biphenyls (PCBs) and other CERCLA regulated substances were detected in subsurface soils, in groundwater, and within the LNAPL plume on site, although no PCBs or other CERCLA regulated substances have been detected on FHWA property. The PCBs may have been associated with the transformer oil stored at the site. Hydrocarbon contamination is the main contaminant that has been found on the FHWA right-of-way. A number of polycyclic aromatic hydrocarbons (PAHs) have also been detected on non-FHWA portions of the site, but have been detected mostly at concentrations less then screening levels. Only one PAH compound in one single sample in any portion of the site has been detected above the Idaho Default Target Level (IDTL): 2-methylnapthalene was detected at a concentration of 5.21 milligrams per kilogram (mg/kg) in one sample from boring BH-5 at a depth of 7.5 feet below ground surface (bgs), compared to the IDTL of 3.3 mg/kg for that compound.

Based on the findings of the EE/CA, soil, groundwater, surface water, and sediment at the Avery Landing site have been found to contain petroleum hydrocarbons and hazardous substances predominantly related to the hydrocarbon plume. Petroleum hydrocarbons (diesel and heavy oil) are present in subsurface soil and groundwater and are discharging into the St. Joe River, which is adjacent to the site. Free product (LNAPL) has been observed in borings and monitoring wells on site, indicating that a continuing source of petroleum hydrocarbons is present in subsurface soils and contributing to ongoing impacts to the St. Joe River.

The EPA has developed a draft Action Memorandum (Action Memo), approved July 5, 2011, that outlines the preferred method for cleanup of contamination at Avery Landing (EPA, 2011). The Action Memo requires a removal action for excavation, removal, and disposal of contaminated soils and LNAPL to the extent practical. Excavated soils will be disposed of at a permitted landfill. EPA anticipates that the bulk of the contamination will be removed and that remaining contamination will be addressed by natural attenuation.

FHWA contemplates a removal action on the FHWA property consistent with the Action Memo. Prior to approval of the Action Memorandum, soil characterization had not been performed on the FHWA right-of-way to a level necessary for a suitable design of the removal action on the FHWA property. Specifically, the northern extent of petroleum impacts on the FHWA property, and the lateral extent of

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impacts running east/west along Forest Highway 50, had not been characterized. This document describes work performed to characterize petroleum hydrocarbon impacts on the FHWA-owned right-of-way.

1.3 Geologic Setting

This section summarizes geologic conditions at the site, based on the summary presented in the EE/CA (Ecology and Environment, Inc., 2010). The site is located within the Northern Rocky Mountain province along the south slope of the Bitterroot Mountains in the St. Joe River valley. The subsurface geology and the geology of the surrounding hills is dominated by Precambrian (middle Proterozoic) sedimentary deposits, including carbonates and quartzite that are part of the Piegan Group, also known as the Middle Belt Carbonate, Apple Creek Formation. These deposits were part of an intracratonic basin that was periodically connected to the ocean system, and lacustrine and oceanic deposits can be found throughout the group.

The site was developed along an active portion of the St. Joe River by in-filling of material removed from the steep canyon walls, which is evident from the coarse-grained angular gravels that are apparent in the upper 10-12 feet of fill across the site. The site has historically undergone extensive grading to make it a suitable location for a railroad facility. The site is immediately underlain by unconsolidated sand and gravel fill materials existing from ground surface to about 12 feet below grade. At various locations on the Potlatch-owned portion of the site, debris consisting of concrete, wood waste, scrap metal, asphaltic material, and pipes of various material and dimensions were encountered in test pit excavations. Approximately 700 feet of the river bank adjacent to the site was excavated and backfilled with fill soils and riprap rock placed on the riverside surface for armor to minimize bank erosion. Below the unconsolidated fill material are rounded gravel alluvial deposits of the St. Joe River.

1.4 Hydrogeologic Setting

The site hydrogeology is controlled by the shallow bedrock of the canyon walls at the north edge and the coarse-grained fill and alluvium of the majority of the site. The fill and alluvium are hydrologically connected to the St. Joe River. Surface water and shallow groundwater flowing from the hills on the northern boundary of the site drain into the fill and alluvial materials, and then flow as groundwater into the St. Joe River. Groundwater flowing southward from the hills present to the north gradually changes flow direction toward the west, under the influence of the river, which flows from east to west. A small alluvial fan associated with the small creek drainage located near the former 500,000-gallon fuel storage tank extends onto the larger alluvial terrace. Groundwater is encountered at shallower depths in the small alluvial fan than on the majority of the site.

Flow volumes in the St. Joe River vary significantly from peak runoff in June and low water levels in late fall and winter. This results in significant changes in the water table on site as measured during the past investigations and as summarized in the EE/CA (Ecology and Environment, Inc., 2010).

2.0 OBJECTIVES AND SCOPE OF WORK

The work described in this memorandum was conducted to achieve the following objectives:

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- 1. Evaluate the nature and extent of petroleum hydrocarbon contamination in soil on the FHWA-owned right-of-way within the Avery Landing site to determine the presence/absence and extent of hydrocarbons requiring cleanup, and
- 2. Provide data suitable to evaluate alternatives and design a final removal action for cleanup of the right-of-way or alternatively, for documenting that no further action is necessary.

To meet these objectives, AMEC advanced boreholes on the FHWA owned right-of-way, collected soil samples from the boreholes for hydrocarbon analysis, performed sheen tests, and measured the thickness of LNAPL in the boreholes. With the exception of borings near the northeastern corner of the site, no recent previous subsurface investigation had been performed on FHWA property prior to this work.

The Clean Water Act, as amended by the Oil Pollution Act, prohibits the discharge of oil affecting natural resources belonging to the United States in such quantities as are determined by the EPA to be harmful. The EPA has determined that a "harmful quantity" of oil is an amount that, when discharged, violates applicable water quality standards, causes a film or sheen on the surface of the water, or causes a sludge to be deposited beneath the surface (40 CFR § 110.3). Idaho state regulations do not provide specific soil screening levels for total petroleum hydrocarbons (TPH). For the purposes of this investigation, the presence of hydrocarbons at quantities sufficient to produce a sheen, sludge, or measurable LNAPL was considered to be a likely ongoing source of impacts to downgradient groundwater and potentially to the St. Joe River. Therefore, based on EPA requirements, quantities of oil producing a sheen, sludge, or measurable LNAPL are considered to be a harmful quantity, as oil in these quantities is likely to represent an ongoing source to downgradient groundwater and the St. Joe River. Soil that does not contain visible impacts and that does not fail the sheen test is unlikely to pose a risk to the river and could potentially be left in place.

3.0 SUMMARY OF WORK CONDUCTED

AMEC staff and subcontractors conducted drilling and soil sampling beginning September 20, 2011, and ending September 22, 2011. FHWA personnel were present during field activities on September 21, 2011, to observe the work. At the same time as the FHWA investigation conducted by AMEC staff, personnel from EPA and EPA's Superfund Technical Assessment and Response Team (START) contractor performed test pitting on the property to the south of the FHWA-owned right-of-way. EPA personnel periodically visited the FHWA drilling and sampling operation to compare field observations between the two portions of the site.

Prior to drilling, sampling locations were marked in the field based on locations proposed in the work plan. A public utility locate (OneCall) was performed, and underground utilities at all locations were cleared by Utilities Plus, LLC, a private locating firm, after the locations had been marked by AMEC staff. One telecommunications line was identified slightly south of the paved surface of Forest Highway 50. No other utilities were identified near the sampling locations.

Eleven borings were advanced at the locations shown on Figure 2. Borehole locations BH-103, BH-106, and BH-111 (alternative additional borehole) were completed at different locations from those proposed in the work plan, based on the following rationale for each location:

• BH-103 was moved northwest of the proposed location, because the northern extent of petroleum impacts had not been identified in BH-104 drilled earlier in the field campaign.

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- BH-106 was moved southeast of the proposed location, because relatively slight petroleum impacts observed in BH-108 indicated that investigation closer to known LNAPL in well MW-11 may be warranted.
- BH-111 was moved significantly to the northeast of the proposed location of BH-ALT, because no additional delineation of petroleum impacts was necessary west of the slight impacts observed in BH-108, and because additional delineation was necessary north of the final location for BH-106.

All other boreholes were completed at the locations proposed in the work plan.

3.1 Soil Sampling

Boland Drilling, Inc., an Idaho licensed driller, advanced a total of 11 borings (BH-101 through BH-111) using a hollow-stem auger drill rig to total depths ranging from 15 to 19 feet below grade. The targeted depth was slightly below water-saturated conditions observed in the field. Borehole locations are shown on Figure 2, which also shows analytical results for total petroleum hydrocarbons (TPH) in the diesel (TPH-D) and motor oil (TPH-O) range. Analytical results are discussed in full in Section 4.0.

Each boring was continuously logged for lithology according to ASTM 2488 (Visual Manual Procedure) by an AMEC Certified Professional Soil Scientist. Boring logs are included as Attachment A.

The depth to groundwater was measured in the boreholes depths ranging from 12.9 to 18.5 feet below grade; depths were noted in each boring log. Depth of wet or water-saturated soil was also noted on each boring log. Boreholes BH-106 and BH-108 were drilled starting at surface elevations lower than the surface of Forest Highway 50. All other boreholes were advanced either through the surface of Highway 50, or on the shoulder less than 6 inches below the highway surface.

At each borehole, at least two soil samples were collected for laboratory testing. Samples from the boreholes were collected at depths of approximately 5 feet bgs and at the groundwater interface, as specified in the work plan. An additional sample was collected from each of boreholes BH-102, BH-104, BH-105, and BH-106 at the depth where petroleum impacts were observed in each borehole. An additional sample was also collected from BH-103 at an additional depth where petroleum impacts were observed in adjacent boreholes BH-102 and BH-104. Field observations, including visual evidence of petroleum contamination, are detailed in Section 4.0.

Soil samples were collected in accordance with the work plan, which specifies field methods for sample collection, sample designation, equipment decontamination, and documentation (AMEC, 2011). Samples were collected into laboratory-supplied amber glass jars with Teflon-lined lids. One field duplicate was collected at a depth of 12.2 feet in borehole BH-101, and project-specific matrix spike/matrix spike duplicate (MS/MSD) samples were collected in order to meet quality control objectives specified in the work plan.

The soil samples collected were analyzed for petroleum by the NWTPH-Dx method with silica gel cleanup, as specified in the work plan. Analyses were performed by Pace Analytical Services, Inc., of

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Seattle, Washington. Analytical data and a summary data validation memorandum are provided in Attachment B.

3.2 Field Tests

Visual evidence of petroleum contamination was recorded by AMEC's soil scientist during soil logging. At each boring, a sheen test was conducted at 2.5-foot intervals by shaking approximately 10 grams of soil in water, as described in the work plan. Upon completion of the borehole, the depth to water and thickness of LNAPL (if any) was measured using an oil-water interface probe. The specific intervals and results of sheen testing are shown on the boring logs (Attachment A). Results are discussed in Section 4.0.

3.3 Surveying

Following field activities, borehole locations were recorded by Robert Peccia and Associates (RPA) using Trimble survey grade global positioning system (GPS) receivers to produce both horizontal and vertical results, referenced to the project control and accurate to within ±0.03 feet. These GPS data were used to plot the sampling locations shown on Figure 2.

4.0 RESULTS

This section summarizes the field observations from the investigation, describes the validation of the analytical data, and discusses the analytical results. Soil analytical data are presented in Table 1. A summary of laboratory results is included on Figure 2. Complete analytical laboratory reports and a data validation memorandum are included in Attachment B.

4.1 Field Observations

Field observations are provided in the boring logs in Appendix A and summarized in Table 2. This section presents an overview and brief discussion of the results.

Typical subsurface conditions encountered in the boreholes consisted of the following units:

- Sand and sandy gravel from near ground surface to depths ranging from approximately 5 feet to 10 feet below grade;
- Silty gravel and gravelly silt underlying the sand and gravel layer, to depths ranging from 11.5 feet to 17.8 feet below grade;
- Wet sandy materials underlying the silt and gravel unit, observed in all boreholes except BH-104, BH-105, and BH-106, and BH-110. In BH-104, BH-105, and BH-106, a clayey silt unit was observed beneath the silt and gravel unit. In BH-110, a layer of wood greater than 1 foot thick was observed beneath the silt and gravel unit.

A thin layer of black cindery material was observed in all boreholes except BH-102 and BH-106. This layer was typically observed at approximately 5 feet below grade.

A strong odor and positive sheen test results were identified on soil from boreholes BH-101 and BH-102, located near the former fuel tank and injection area on the FHWA right-of-way. Strong odor and positive sheen test results were also noted on soil from downgradient boreholes with a clayey silt

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layer (BH-104, BH-105, and BH-106), but not in boreholes without this clayey silt layer. No odor or sheen was observed in the lower 2.4 feet of BH-105, beneath the clayey silt layer. A slight petroleum odor, but no sheen, was identified in borehole BH-108. No odor or sheen was observed in the remaining boreholes.

LNAPL was measured at thicknesses of 0.05 foot and less than 0.01 foot above the water in borehole BH-101 and BH-102, respectively. LNAPL was not observed on the water in any other boreholes.

4.2 Data Validation

The analytical results were subjected to a data quality assessment (DQA), and all data were deemed acceptable for use. The DQA is presented in Attachment B, including reference to the project, method, and EPA documents that guided data review. The diesel range result for the sample collected from BH-101 at a depth of 12.2 feet was qualified as estimated due to field duplicate precision outside of the acceptance range. No other data qualification was necessary.

4.3 Soil Analytical Results

Analytical results for soil are summarized in Table 1 and Figure 2. Petroleum hydrocarbons were detected at the shallow sampling interval of 5.0 or 6.0 feet in samples from 8 of the 11 boreholes. No TPH was detected in BH-103, BH-107, and BH-108. All but one of the shallow samples with detectable levels of petroleum consisted of black material with no petroleum odor or sheen; the sample from a depth of 6.0 feet in BH-102 consisted of dark grayish brown gravelly silt with a slight petroleum odor. Shallow black material was also encountered in BH-103, but the material did not contain detectable concentrations of petroleum constituents.

Petroleum hydrocarbons were detected in all samples collected from depths greater than 6 feet from boreholes BH-101, BH-102, BH-104, BH-105, and BH-106; except the deepest sample (16.5 feet bgs) from BH-105. The lack of petroleum detection near the bottom of borehole BH-105 corresponds with field observations of lack of petroleum odor or sheen at that location. The highest concentrations of petroleum hydrocarbons were detected in the sample collected from a depth of 11.0 feet in BH-106. The second highest concentrations of petroleum in samples collected below a depth of 6 feet occurred in the sample collected from BH-102 at a depth of 13.5 feet.

5.0 SUMMARY

Petroleum hydrocarbons (diesel and oil range) were detected in laboratory samples collected from at least one interval from each of the 11 borings on the FHWA right-of-way, except borings BH-103, BH-107, and BH-108. In general, the highest concentrations of petroleum hydrocarbons were observed in borings just downgradient of the location of the former 50,000-gallon fuel tank on the eastern side of the FHWA portion of the site.

Field observations indicate that visual impacts of petroleum are limited to the eastern portion of the site, surrounding and just downgradient of the former fuel tank area. Sample intervals having elevated concentrations of petroleum hydrocarbons in laboratory samples did not necessarily exhibit a positive sheen test, suggesting that petroleum hydrocarbons at these intervals are likely highly weathered and not mobile. These low-mobility hydrocarbons are unlikely to pose a risk to the St. Joe River.

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A summary of visual petroleum impacts, including areas where free LNAPL (measured using an oilwater interface probe) and positive sheen test results were observed, is provided on Figure 3. Figure 3 also shows the estimated aerial extent of impacts of petroleum deemed to present an ongoing risk to groundwater based on EPA's criteria for hydrocarbon mobility.

6.0 REFERENCES

- AMEC Geomatrix, Inc. (AMEC), 2011, FHWA Right-of-Way Investigation Work Plan, Avery Landing, Avery, Idaho: Prepared for Western Federal Lands Highway Division, Vancouver, Washington, August.
- Ecology and Environment, Inc., 2007, Removal Assessment Report, Avery Landing Site, Avery, Idaho: Prepared for the United States Environmental Protection Agency, Seattle, Washington, under Superfund Technical Assessment and Response Team contract EP-S7-06-02, Technical Direction Document 07-03-0004, July.
- Ecology and Environment, Inc., 2010, Engineering Evaluation/Cost Analysis, Avery Landing Site, Avery, Idaho: Prepared for the United States Environmental Protection Agency, Seattle, Washington, Technical Direction Document 08-05-0006, December.
- EPA (U.S. Environmental Protection Agency), 2008, Administrative Settlement Agreement and Order on Consent, Matter of Avery Landing Site, Avery, Idaho, CERCLA Docket No. CERCLA-10-2008-0135, U.S. Environmental Protection Agency, Region 10, Seattle, August 4.
- EPA, 2011, Action Memorandum, July 5.
- Golder (Golder Associates, Inc.), 2009, Final Engineering Evaluation/Cost Analysis Work Plan for the Avery Landing Site, Avery, Idaho: Prepared for Potlatch Forest Products Corporation, January.
- Golder, 2010, Engineering Evaluation/Cost Analysis, Avery Landing Site, Avery, Idaho: Submitted to Potlatch Land and Lumber, LLC, January.

Enclosures:

Figure 1 Vicinity Map

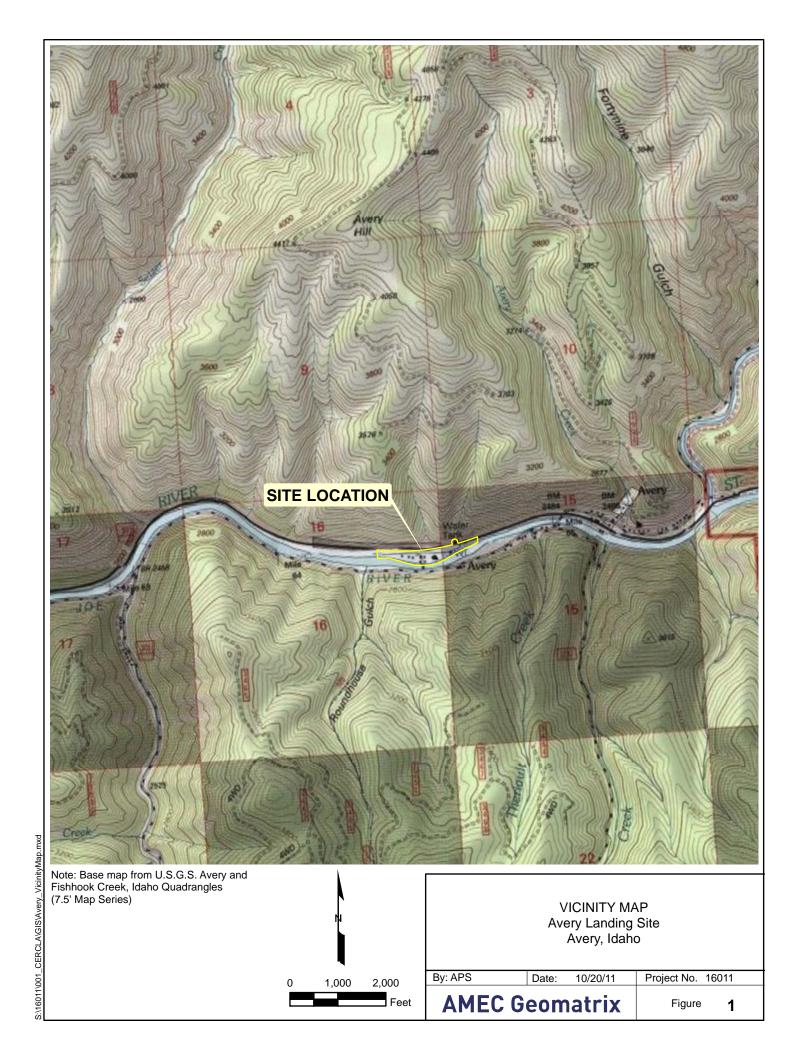
Figure 2 Analytical Data for TPH

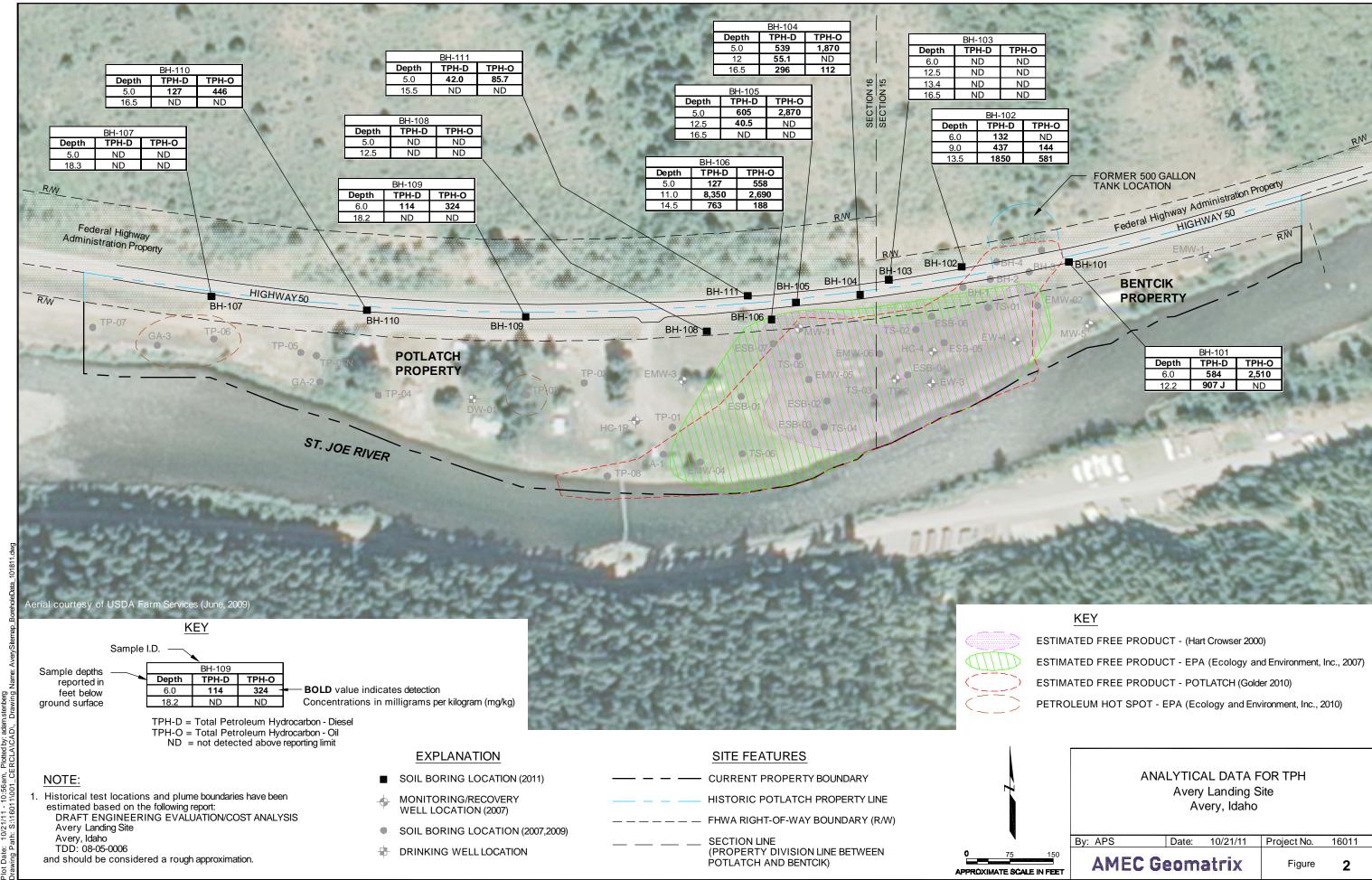
Figure 3 Field Observations (Sheen/LNAPL) and Estimated Plume Extent on FHWA Property

Table 1 Summary of Soil Analytical Results
Table 2 Summary of Field Observations

Attachment A Boring Logs

Attachment B Data Validation Memorandum and Laboratory Analytical Reports





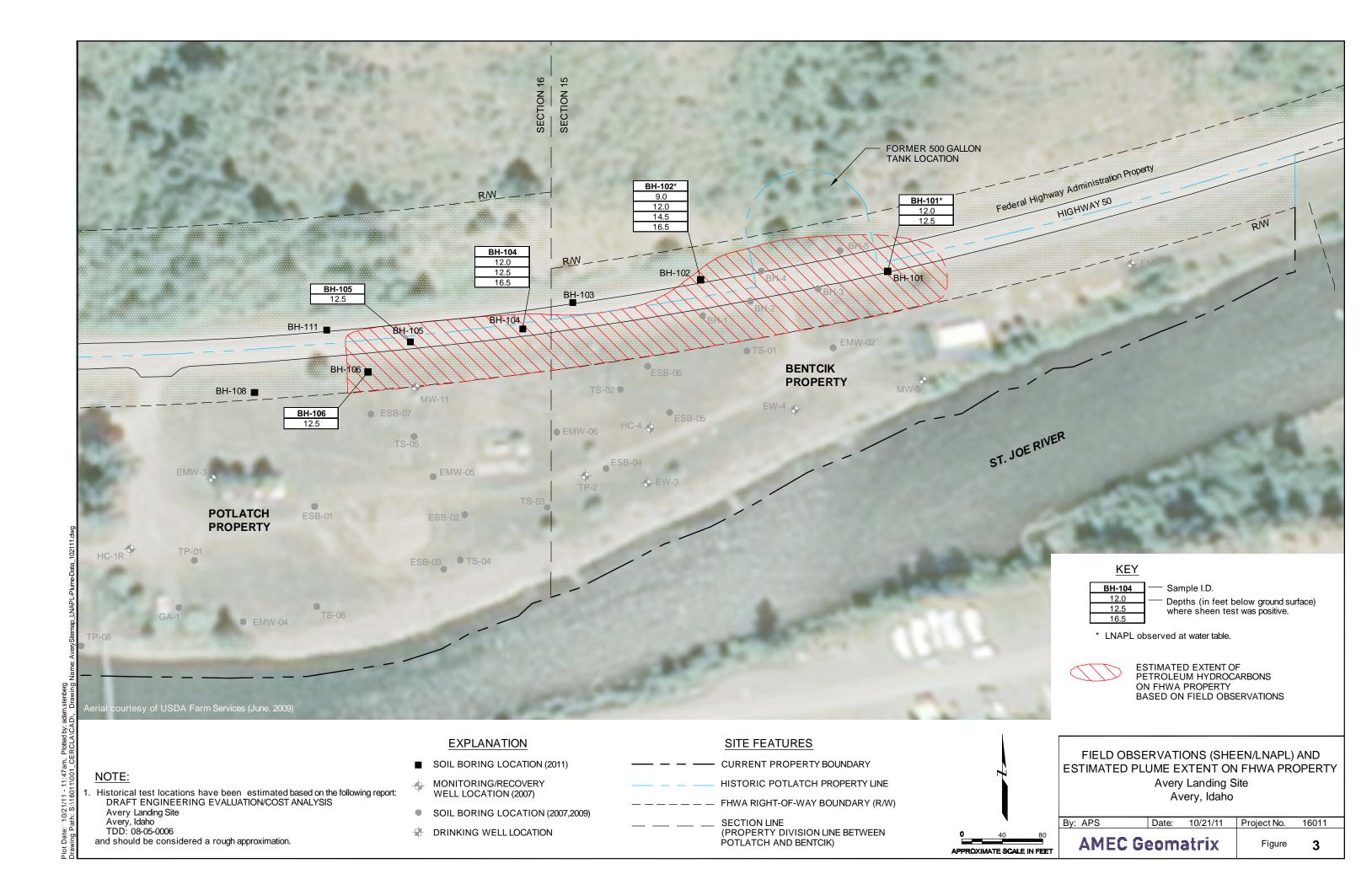


TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS 1,2

Avery Landing Site Avery, Idaho

concentrations reported in milligrams per kilogram (mg/kg)

	Sample	ted in milligrams per kilogra	<u>, , , , , , , , , , , , , , , , , , , </u>		
	Depth				
Boring ID	(feet bgs)	TPH-Diesel	TPH-Motor Oil		
	6.0	584	2,510		
BH-101	12.2	388 J	84.7 U		
	DUP 3	907 J	71.5 U		
	6.0	132	72.7 U		
BH-102	9.0	437	144		
	13.5	1,850	581		
	6.0	17.4 U	69.4 U		
BH-103	12.5	16.7 U	66.6 U		
DI1-103	13.4	19.9 U	79.6 U		
	16.5	17.3 U	69.4 U		
	5.0	539	1,870		
BH-104	12	55.1	71.1 U		
	16.5	296	112		
	5.0	605	2,870		
BH-105	12.5	40.5	72.6 U		
	16.5	17.4 U	69.5 U		
	5.0	127	558		
BH-106	11.0	8,350	2,690		
	14.5	763	188		
BH-107	5.0	17.6 U	70.5 U		
DI1 107	18.3	17.1 U	68.3 U		
BH-108	5.0	17.5 U	70.1 U		
D11 100	12.5	20.9 U	83.5 U		
BH-109	6.0	114	324		
D11 100	18.2	18.3 U	73.3 U		
BH-110	5.0 127		446		
5.1.110	16.5	19.0 U	76.1 U		
BH-111	5.0	42.0	85.7		
ווים	15.5	17.7 U	70.9 U		

<u>Notes</u>

- 1. Detected concentrations shown in **bold** type.
- 2. Data qualifiers are as follows:
 - J = value is an estimate.
 - U = not detected at the reporting limit listed.
- 3. Duplicate sample collected with BH-101 at depth of 12.2 feet.

Abbreviations

bgs = below ground surface

mg/kg = milligrams per kilogram

TABLE 2

SUMMARY OF FIELD OBSERVATIONS

Avery Landing Site Avery, Idaho

Borehole ID	Depth to Wet or Water-Saturated Soil (feet)	Depth to Water in Borehole (feet)	Depth(s) of Positive Sheen Test (feet)	Thickness of LNAPL on Borehole Water (feet)
BH-101	12.2	12.9	12, 12.5	0.05
BH-102	8.5 (wet) / 13.7 (water saturated)	15.11	9, 12, 14.5, 16.5	Less than 0.01
BH-103	13.4	16.93	None	None
BH-104	11.9 (wet) / 16.4 (water saturated)	17.1	12, 12.5, 16.5	None
BH-105	13	16.81	12.5	None
BH-106	10.3 to 15.4 (very moist to wet)	15.8	12.5	None
BH-107	18.5	18.5	None	None
BH-108	12.5	13.95	None	None
BH-109	17.8	18.40	None	None
BH-110	16.0 (very moist, wood below 17.3 feet)	18.3	None	None
BH-111	15.7	15.58	None	None

Abbreviations

LNAPL = light nonaqueous-phase liquid

Δ	TT	Δ	CF	H٨	۱F	N٦	ΓΔ
_		~	vı	117	_		_

Boring Logs

PROJE				nber 2011 anding	Row Soil Sampling	Log of Boring No. BH-101				
BORIN	G LOC	CATI	ON:			ELEVATION AND DATE	JM:			
DRILLI	NG C	ТИС	RAC	TOR: Bola	and	DATE STARTED: 9/22/11		DATE FINIS 9/22/11	SHED:	
DRILLI	NG MI	ETH	OD:	Hollow	-stem auger	TOTAL DEPTH (ft.): 15.0		MEASURIN	G POINT:	
DRILLI	NG EC	QUIF	PMEN	IT: Forem	ost Mobile B-59	DEPTH TO WATER (ft.)		FIRST COMPL. 12.2 12.9		
SAMPL	ING N	⁄ΙΕΤΙ	HOD:	Split spo	on	LOGGED BY: WR Welzenbach			1	
HAMM	HAMMER WEIGHT: 140 lbs.			140 lbs.	DROP: 30"	RESPONSIBLE PROFE	ESSI	ONAL:	REG. NO. CPSS 329175	
DEPTH (feet)				OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. de cementation, react. w/HCl, geo. inte	nsity, structure,		RE	MARKS	
					Asphalt.					
1- 1- 2- 3- 4-			15 30 14 15 12 10		SILTY GRAVEL (GM): yellowish brown and stream 7.5YR 4/6), Slightly moist, angular, poorly sodor.		- - - - -	No sheen @) 1'	
5- - 6-	BH-101-6.0		14 34 21		GRAVELLY SILT (ML): black (10YR 2/1), Sligh poorly sorted, no petroleum odor. Contains cind			No sheen @		
7-	В		28 10 8		SILTY GRAVEL (GM): dark yellowish brown (1) moist, subangular, poorly sorted, no petroleum			No sheen @) 7.5'	
9-			4 2 1 2		GRAVELLY SILT (ML): very dark grayish brown subangular, well sorted, fine gravel, no petroleu clay content with depth. Brown (10YR 4/3) mottle	m odor. Increasing		No sheen @	9 8.5'	
11-	and DUP		3 6 5 2		SILTY SAND (GM): dark yellowish brown (10Yl subangular, poorly sorted, no petroleum odor.	R 4/6), Slighty moist,	_ _ _	No sheen @) 10'	
12- - 13- - 14-	BH-101-12.2 and		3 6 5 8		FINE SAND WITH SILT (SM): dark gray (10YR petroleum odor and sheen on soil. SANDY GRAVEL (GW): dark gray (10YR 4/1), subangular, poorly sorted fine gravel, strong pet sheen on soil.	Water saturated,	- - - -	interface pro (product this	2.5' troleum sing oil-water obe: 12.85'	
_			3		SILT (ML): very dark gray (10YR 3/1), Moist, sli	ght petroleum odor.	_	feet) No sheen @) 14.5'	
15-		<u> </u>							AKBOREV (REV. 8/2007)	
	A	MI	EC I	Geoma	trix	Project No. S	E101	16011 I	Page 1 of 2	

Log of Boring No. BH-101 (cont'd)

	SAI	MPL	ES	(D				
DEPTH (feet)		ple	Blows/ 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		F	REMARKS
DE 3	Sample No.	Sam	Blov 6 inc	O REA (P	cementation, react. w/HCl, geo. inter.			
_					Borehole terminated at 15.0 feet, 13:25, 9/22/11. Backfilled with cuttings.	_		
16-					3	_		
_								
17-								
17								
40								
18-								
19-								
_								
20-	†					-		
_	1					-		
21-						-		
_						-		
22-	-					-		
_	1					-		
23-	1					-		
_						_		
24-						-		
_	_					_		
25-						_		
_						_		
26-								
_								
27-								
21								
-								
28-	1					-		
_	1					-		
29-	1					-		
_	1					-		
30-	-					-		
_	1					-		
31-	1					-		
_	-					-		
32-	-					-		
_	-					-		
33-								
								OAKBOREV (REV. 8/2007)
					Project N	o. SE10	16011	Page 2 of 2

PROJE				ber 2011 anding	Row S	oil Sampling	Log of Bo	ori	ng No.	BH-102
BORIN							ELEVATION AND DATU	JM:		
DRILLI	NG C	ONT	RACI	ror: Bolai	nd		DATE STARTED: 9/22/11		DATE FIN 9/22/11	ISHED:
DRILLI	NG M	ETH	OD:	Hollow-	stem au	ger	TOTAL DEPTH (ft.): 17.0		MEASURI	NG POINT:
DRILLI	NG E	QUIF	MEN	T: Foremo	st Mobil	e B-59	DEPTH TO WATER (ft.)	FIF 8.5	ST 5	COMPL. 15.11
SAMPL	ING N	ИЕТІ	HOD:	Split spoo	n		LOGGED BY: WR Welzenbach	•		•
HAMM	ER WI	EIGH	HT:	140 lbs.		DROP: 30"	RESPONSIBLE PROFESSIONAL: WR Welzenbach			REG. NO. CPSS 329175
HLAGO		MPL		Ŋ	SAN (poor	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. de cementation, react. w/HCl, geo. intended in the commentation of the	gular well graded 5Y 4/2), Slightly moist, sum odor, increasing		No sheen No sheen Sheen @	CPSS 329175
12- - 13- - 14-	BH-102-13.5		16 16 7 6 8	_		Γ with FINE SAND (ML): very dark gray (10 er-saturated, strong petroleum odor.	YR 3/1),	- - - - -	Sheen @	
15-		<u> </u>	-	0	L == 0 = =			-401	0044	OAKBOREV (REV. 8/2007)
	Δ	MI	-611	Geomat	IFIX		Project No. SE	-101	6011	Page 1 of 2

Log of Boring No. BH-102 (cont'd)

	SAI	MPL	ES	(D			
DEPTH (feet)	Sample No.	Sample	Blows/ 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		REMARKS
_			7		GRAVELLY SAND (SW): dark gray (10YR 4/1), Water-saturated,		Depth of petroleum
_			12		angular well sorted fine gravel, strong petroleum odor.		measured using oil-water interface probe: 15.11
16-			13				(product thickness less
- 17-			12				than 1/8 inch) Sheen @ 16.5'
-					Borehole terminated at 17.0 feet, 8:25, 9/22/11. Backfilled with cuttings.		
18-					outunge.	_	
_						_	
19-						_	
_						-	
20-						-	
_						-	
21-						-	
-						-	
22-							
_							
23-							
-							
24-							
25-							
_							
26-						_	
_						_	
27-						_	
_						_	
28-						-	
_						-	
29-						-	
_							
30-						-	
-							
31-						-	
-						-	
32-							
33-							
							OAKBOREV (REV. 8/2007)
					Project No.	SE101	6011 Page 2 of 2

PROJ				ber 2011 anding	Row Soil Sampling		Log of E	3or	ing No.	BH-103
BORIN	NG LO	CAT	ION:				ELEVATION AND DA	TUM:		
DRILL	ING C	ONT	RAC1	ror: Bola	and		DATE STARTED: 9/22/11		DATE FIN 9/22/11	IISHED:
DRILL	ING M	ETH	OD:	Hollov	<i>ı-</i> stem auger		TOTAL DEPTH (ft.): 17.0			ING POINT:
DRILL	ING E	QUIF	PMEN	T: Forem	ost Mobile B-59		DEPTH TO WATER (ft		IRST 3.4	COMPL. 16.93
SAMP	LING I	ИΕΤΙ	HOD:	Split spo	on		LOGGED BY: WR Welzenbach			·
HAMN	1ER W	EIGI	HT:	140 lbs.	DROP: 30"		RESPONSIBLE PROF WR Welzenbach	ESSI	IONAL:	REG. NO. CPSS 329175
DEPTH (feet)	Sample S No.	Sample TH	Blows/ S 6 inches	OVM READING (ppm)	NAME (USCS): color, mo	SCRIPTION ist, % by wt., plast. der react. w/HCl, geo. intel	nsity, structure,		F	REMARKS
	San	San	Blo 6 inc	REA (F)		Elevation:				
					SANDY SILT with GRAVEL Slightly moist, subrounded					
1-					SILTY GRAVEL (GM): stro	ng brown (7.5YR 4/6				
-			16		angular poorly sorted, no pe	etroleum odor.				
2-			15					_		
_			20					_		
3-			24					_	No sheen	@ 2.5'
_			21					_		
4-			25					_		
_	-		25					_		
5-	-		37					_		a =:
_			11					-	No sheen	@ 5'
6-	BH-103-6.0		9		Wood ash/ cindery material	Black		-	No observ	
-	BH-1		8		SILTY GRAVEL (GM): dark	k yellowish brown (10			No sheen	@ 6
7-	-		7		moist, subangular, poorly se	orted, no petroleum o	dor.	-		
-	-		10					-	No obcon	@ 7.5'
8-			7					-	No sheen	@ 7.5
-	-		8					-		
9-	-		8					-		
-	-		8					-		
10-	-		7					-	No sheen	@ 10'
_	-		8		_			-	140 SHECH	@ 10
11-	-		10 6		Moist and yellowish brown	(10YR 5/6)		-		
12-]		5							
· <u>-</u> -	3-12.5	1	5					_		
13-	3.4 BH-103-		6					_	No sheen	@ 12.5'
- 14- -	BH-103-13.4		5 6		FINE SAND (SP): yellowish petroleum odor.	h brown (10YR 5/6), \	Water-saturated, no		No sheen	@ 13.5'
15-			10					\pm		
10-		h / 1		0	Luis			0546	10011	OAKBOREV (REV. 8/2007)
	Α	MI.	EUI	Geoma	ITFIX		Project No.	5 <u></u> 10	10011	Page 1 of 2

Log of Boring No. BH-103 (cont'd)

	0.1-			Г				T	,
	No.	Sample	Blows/ 5	OVM READING (ppm)	DESCRIF NAME (USCS): color, moist, % cementation, react.	PTION by wt., plast. density, struc w/HCl, geo. inter.	ture,	F	REMARKS
16- 4	16.5		14 9 12		GRAVELLY SAND (SW): dark gray sorted fine gravel, no petroleum odd	y (2.5Y 4/1), Subangular or.	well	No sheen	@ 15'
17 - 17	-103-		17				_	No sheen	@ 16.5'
17 - H	B				Borehole terminated at 17.0 feet, 10 cuttings.	0:10, 9/22/11. Backfilled v	with	measured	NAPL was using an nterface probe.
19-							-		
20-							-		
21-							-		
22-							-		
23-							-		
24- - 25-							_		
26-							-		
27-							-		
28-							-		
_ 29_							-		
30-							-		
31-							-		
32-							_		
33									
									OAKBOREV (REV. 8/2007
						P	roject No. SE10	16011	Page 2 of 2

PROJE		CT: September 2011 Row Soil Sampling Avery Landing						Log of Boring No. BH-104				
BORIN	G LOC	CATI	ON:				E	ELEVATI	ON AND DATU	M:		
DRILLI	NG C	ONT	RAC	TOR: Bola	and		9	DATE ST 9/21/11			DATE FIN 9/21/11	ISHED:
DRILLI	NG MI	ΞΤΗ	OD:	Hollow	/-stem a	uger		TOTAL D 17.5	EPTH (ft.):		MEASURI	NG POINT:
DRILLI	NG E	QUIF	MEN	IT: Forem	ost Mob	ile B-59	[DEPTH T	ا O WATER (ft.) ا	FIR		COMPL.
SAMPL	ING N	1ETH	HOD:	Split spo	on		١		lzenbach			1222
HAMM	ER WI	EIGH	łT:	140 lbs.		DROP: 30"		RESPONSIBLE PROFESSION WR Welzenbach			NAL:	REG. NO. CPSS 329175
DEPTH (feet)	Sample No. Sample Blows/ 6 inches OVM READING (ppm)						moist, % by wt., plast. density, structure, on, react. w/HCl, geo. inter.				F	REMARKS
1	BH-104-5.0		18 50 34 29 25 50 52 26 12		GR bro odd	AVELLY SAND or SANDY GRAVEI wn (10YR 6/4), Dry, angular poorly for. NDY GRAVEL (GW): black (10YR 2 orly sorted, no petroleum odor.	sorted fine (2/1), Slightly	gravel, r y moist, 4), Sligh	o petroleum	_ _ _ _	No sheen	
8- 9- 10- 11- - 12- 13- - 14-	BH-104-12.0		14 13 7 3 5 4 5 3 4 4 6 17		▼ Ver	eangular poorly sorted fine gravel, not be a solution of the gravel of t	etroleum odo ray (10YR 5 troleum odo	or 5/1), Moi or.				@ 10' en @ 12' en @ 12.5'
-			3							-	No sheen	W 14
15-												OAKBOREV (REV. 8/2007)
	Α	ME	EC (Geoma	ıtrix				Project No. SE	1016	8011	Page 1 of 2

Log of Boring No. BH-104 (cont'd)

	SAI	MPL	.ES	(D				
DEPTH (feet)	Sample No.		Blows/ 6 inches	OVM READING (ppm)	DESCRII NAME (USCS): color, moist, % cementation, react.	PTION by wt., plast. density, structure, w/HCl, geo. inter.		REMARKS
			11				No sheer	n @ 15'
16-	10		18					
- 17-	BH-104-16.5		31 36		SANDY GRAVEL (GW): brown (10 petroleum odor and sheen on soil, a	YR 4/3), Water-saturated, strong angular, poorly sorted.	Slight she	een @ 16.5'
- 18-					Borehole terminated at 17.5 feet, 17 cuttings, with an asphalt cold patch		- measure	NAPL was d using an interface probe.
19-								·
_							_	
20-								
21-								
22-							_	
_								
23-								
24-								
_							_	
25-							_	
-								
26-								
27-							_	
_							_	
28-								
29-								
30-								
_								
31-								
32-								
_								
33-								OAKBOREV (REV. 8/2007)
						Project No. SE	1016011	Page 2 of 2

PROJE				ber 2011 anding	Row Soil Sampling	Log of I	Log of Boring No. BH-105				
BORING	G LOC	CATIC	ON:	_		ELEVATION AND DA	TUM:				
DRILLIN	NG CO	ONTR	RACT	ror: Bola	and	DATE STARTED: 9/21/11		DATE FINI 9/21/11			
DRILLIN	NG MI	ETHC	DD:	Hollow	u-stem auger	TOTAL DEPTH (ft.): 17.0		MEASURIN	NG POINT:		
DRILLIN	NG EC	UIPI	MEN	T: Forem	ost Mobile B-59	DEPTH TO WATER (ff	.) FI	RST 3	COMPL. 16.81		
SAMPL	ING N	1ETH	IOD:	Split spo	on	LOGGED BY: WR Welzenbach	'				
HAMME	ER WE	EIGH	T:	140 lbs.	DROP: 30"	RESPONSIBLE PROF WR Welzenbach	ESSI	ONAL:	REG. NO. CPSS 329175		
DEPTH (feet)	Sample No.	Sample T	Blows/ (5)	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. cementation, react. w/HCl, geo.	density, structure,		RI	EMARKS		
<u> </u>	San	San	e in	RE,	Surface Elevation:						
1- - 2- - 3- - 4- - 5- - 6- - 7- - 8- - 9- - 11-	BH-105-5.0		17 46 41 50 45 50 13 27 30 19 11 16 10 6		SILTY GRAVEL (GM): yellowish brown (10Y moist, angular, poorly sorted, no petroleum of GRAVELLY SAND WITH SILT (SW): black (moist, subrounded poorly sorted fine gravel, if GRAVELLY SILT (ML): yellowish brown (10Y angular poorly sorted fine gravel, no petroleum of SILTY GRAVEL (GM): dark grayish brown (2 angular, poorly sorted. No petroleum odor.	10YR 2/1), Slightly no petroleum odor. YR 5/4), Slightly moist, m odor.	-	No sheen (@ 5' @ 7.5'		
- 12- -	BH-105-12.5		15 8 14 8		Black		- - -	Sheen @ 1	2.5'		
13- - 14- - 15-	-H8		1 2 5 6		CLAYEY SILT (MH): dark gray (10YR 4/1), v fine roots, slight petroleum odor.	Vater-saturated, slight					
10-		МЕ	<u> </u>	O a a	. Lucius	Dunin at N	0540		DAKBOREV (REV. 8/2007)		
	A	ME	انا	Geoma	TELX	Project No.	o⊏10°	ווטסו	Page 1 of 2		

REMARKS REMA	DESCRIPTION	S	SAMF	PLES	(D			
poorly sorted, no petroleum odor. Borehole terminated at 17 feet, 15:20, 9/21/11, Backfilled with cuttings, with an asphalt cold patch to 0.3 feet bgs. No free LNAPL was measured using an oil-water interface probe.	poorly sorted, no petroleum odor. Borehole terminated at 17 feet, 15:20, 9/21/11, Backfilled with cuttings, with an asphalt cold patch to 0.3 feet bgs. No free LNAPL was measured using an oil-water interface probe cuttings. With an asphalt cold patch to 0.3 feet bgs. No free LNAPL was measured using an oil-water interface probe cuttings. With an asphalt cold patch to 0.3 feet bgs. No free LNAPL was measured using an oil-water interface probe cuttings. With an asphalt cold patch to 0.3 feet bgs.			Blows/ 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		REMARKS
poorly sorted, no petroleum odor. Borehole terminated at 17 feet, 15:20, 9/21/11. Backfilled with cuttings, with an asphalt cold patch to 0.3 feet bgs. Borehole terminated at 17 feet, 15:20, 9/21/11. Backfilled with cuttings, with an asphalt cold patch to 0.3 feet bgs. No free LNAPL was measured using an oil-water interface probe.	Borehole terminated at 17 feet, 15:20, 9/21/11. Backfilled with cuttings, with an asphalt cold patch to 0.3 feet bgs. Borehole terminated at 17 feet, 15:20, 9/21/11. Backfilled with cuttings, with an asphalt cold patch to 0.3 feet bgs. No free LNAPL was measured using an oil-water interface probe developed at 19 feet, 15:20, 9/21/11. Backfilled with cuttings, with an asphalt cold patch to 0.3 feet bgs.			6		SANDY GRAVEL (GW): strong brown (7.5YR 4/6), Dry, angular,		No sheen @ 15'
Borehole terminated at 17 feet, 15:20, 9/21/11. Backfilled with cuttings, with an asphalt cold patch to 0.3 feet bgs. No free LNAPL was measured using an oil-water interface probe.	Borehole terminated at 17 feet, 15 20, 9/21/11. Backfilled with cuttings, with an asphalt cold patch to 0.3 feet bgs. No free LNAPL was measured using an oil-water interface probe and oil-water interface probability interface probability interfa					poorly sorted, no petroleum odor.		
cuttings, with an asphalt cold patch to 0.3 feet bgs. measured using an oil-water interface probe.	and cuttings, with an asphalic cold patch to 0.3 feet bigs: Counting Cou	16- 29	2					
cuttings, with an asphalt cold patch to 0.3 feet bgs. measured using an oil-water interface probe.	and cuttings, with an asphalic cold patch to 0.3 feet bigs: Counting Cou	105-	3					
oil-water interface probe.	Oil-water interface probe	17一	5		-			
19- - - - - - - - - - - - - - - - - - -	18- 19- 20- 21- 21- 22- - 23- 23- 24- - 25- 26- - 27- - - 28- 30- 31- 32- 33-	🕇				cuttings, with an asphalt cold patch to 0.3 feet bgs.		measured using an oil-water interface probe.
20	20	18-						·
20	20							
221	21	19-						
221	21							
22- 23- 24- 25- 25- 26- 27- 28- 29- 30- 31-	22- 23- 24- 25- 26- 27- 28- 29- 30- 31- 32- 33-	∠∪ –						
22- 23- 24- 25- 25- 26- 27- 28- 29- 30- 31-	22- 23- 24- 25- 26- 27- 28- 29- 30- 31- 32- 33-	7						
23 -	23- 24- 25- 26- 27- 28- 30- 31- 32- 33-	217						
23 -	23- 24- 25- 26- 27- 28- 30- 31- 32- 33-							
24- 25- 26- 27- 28- 29- 30- 31- 31- 32-	24- 							
24- 25- 26- 27- 28- 29- 30- 31- 31- 32-	24- 	23						
25-	25- 							
25-	25- 	24-						
26-	26- 							
26-	26- 	25						
27-	27-							
27-	27-	26-						
28- - - - 29- - - - - - - - - - - - - - -	28- 							
28- - - - 29- - - - - - - - - - - - - - -	28- 29- 30- 31- 32- - 33- OAKBOREV (REV. 8/2	27-						
	29 -							
	29- - - 30- - - 31- - - - - - - - - - - - - - - -	28-					_	
	30 -	_					_	
	31- 	29-					_	
	31- 32- - - 33- OAKBOREV (REV. 8/2	_					-	
	32 — — — — — — — — — — — — — — — — — — —	30-					-	
	32 — — — — — — — — — — — — — — — — — — —	_					-	
	OAKBOREV (REV. 8/2	31-					-	
	OAKBOREV (REV. 8/2	4					-	
	OAKBOREV (REV. 8/2	32-					-	
	OAKBOREV (REV. 8/2	4					-	
		33						

PROJEC				per 2011 anding	Row S	Soil Sampling		Log of Bo	rir	ng No.	BH-106
BORING	LOC	ATIO	N:				ELEVAT	TON AND DATU	M:		
DRILLIN	IG CC	NTRA	ACT	OR: Bola	and		DATE S 9/21/1	TARTED:		DATE FINISHED: 9/21/11	
DRILLIN	IG ME	THO	D:	Hollow	-stem a	uger		DEPTH (ft.):			ING POINT:
DRILLIN	IG EC	UIPM	IENT	Γ: Forem	ost Mob	ile B-59			FIRS		COMPL. 15.8
SAMPLII	NG M	IETHO	DD:	Split spo	on		LOGGE WR W				1 . 0 . 0
HAMME	R WE	IGHT	:	140 lbs.		DROP: 30"	RESPO	NSIBLE PROFES	SSIO	NAL:	REG. NO. CPSS 329175
DEPTH (feet)	Sample No.	Sample Sample Blows/	6 inches	OVM READING (ppm)		DESCRIPTION NAME (USCS): color, moist, % by wt., plast. decementation, react. w/HCl, geo. int	ensity, stru			F	REMARKS
	Sar	San	6 inc	RE/		Surface Elevation:			1		
						LTY GRAVEL (GM): brown (10YR 4/3), Dry, troleum odor.	subround	ed, no			
6- - 7- - 8- - 9- - 10- - 11- - 12- - 13-	t.5 BH-106-11.0 BH-106-5.0		8 16 9 500 17 24 19 27 7 6 5 6 3 4 4 4 5 2 2 1 1 1		SII	RAVELLY SILT (ML): dark yellowish brown (petroleum odor. RAVELLY SILT (ML): dark yellowish brown (pist, well sorted angular fine gravel, no petroleum odor. LTY GRAVEL (GM): dark gray (10YR 4/1), V gular, poorly sorted, strong petroleum odor.	10YR 4/6) eum odor.	aterial (10%).		No sheen No sheen No sheen	@ 4.5' @ 7.5'
_	BH-106-14.5		1								
15	BH		1								OAKBOREV (REV. 8/2007)
	Α	ME	0 0	eoma	trix			Project No. SE	1016	011	Page 1 of 2

Log of Boring No. BH-106 (cont'd)

	SAN	ИPL	ES	(D				
DEPTH (feet)			Blows/ 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		F	REMARKS
			2				No sheen	@ 15'
- 16-			1		CLAYEY SILT (MH): dark gray (10YR 4/1), Moist, moderate petroleum odor.	_		
-					Borehole terminated at 16.0 feet, 13:30, 9/21/11. Backfilled with cuttings.	_		
17-						_	No free LI	NAPL was
18-						_	oil-water i	nterface probe.
-						-		
19-						-		
-								
20-						-		
04								
21-								
22-								
						_		
23-						_		
4						_		
24-						-		
-						-		
25-						_		
-						_		
26-						-		
27-								
28-								
_								
29-						_		
_						_		
30-						_		
-						_		
31-						_		
-						-		
32-						-		
33 [⊥]							I	OAKBOREV (REV. 8/2007)
					Project N	lo. SE101	16011	Page 2 of 2

PROJECT: September 2011 Avery Landing	Row Soil Sampling	Log of B	Log of Boring No. BH-107				
BORING LOCATION:		ELEVATION AND DAT	UM:				
DRILLING CONTRACTOR: Bolar	nd	DATE STARTED: 9/20/11	DATE FINI 9/20/11	SHED:			
DRILLING METHOD: Hollow-	stem auger	TOTAL DEPTH (ft.): 19.0	MEASURII	NG POINT:			
DRILLING EQUIPMENT: Foremo	ost Mobile B-59	DEPTH TO WATER (ft.)	FIRST 18.5	COMPL. 18.5			
SAMPLING METHOD: Split spoo	n	LOGGED BY: WR Welzenbach		•			
HAMMER WEIGHT: 140 lbs.	DROP: 30"	RESPONSIBLE PROFE WR Welzenbach	ESSIONAL:	REG. NO. CPSS 329175			
DEPTH (feet) Sample No. Sample Blows/ 6 inches OVM COVM (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. cementation, react. w/HCl, geo. i	density, structure, nter.	R	EMARKS			
Sar	Surface Elevation:						
1- 1- 2- -	Angular gravel. SILTY GRAVEL (GM): strong brown (7.5YR angular, poorly sorted, iron staining, no petrol						
3 - 4 - 4 - 5 - 0.9-201-Hg 17 38 38 34	SILTY COBBLE (GM): light brown (7.5YR 6/sorted, no petroleum odor.	4), Dry, angular, well	No sheen (
8- 22 27 23 17 9-	GRAVELLY SILT (ML): very dark greenish g moist, subrounded, well sorted, no petroleum ash fragments (<5%).		 No sheen (@ 7.5'			
10- - 11- 5 4 5	GRAVELLY SILT (ML): strong brown (7.5YR subangular, poorly sorted, brick fragments prepetroleum odor.		No sheen (@ 10'			
12- 12- 13- 13- 2 14- 4	POORLY GRADED SAND (SP): strong brow moist, no petroleum odor, homogeneous.	n (7.5YR 4/6), Slightly	 No sheen (@ 13'			
15 4 4				OAKBOREV (REV. 8/2007)			
AMEC Geomat	trix	Project No. S		Page 1 of 2			

Log of Boring No. BH-107 (cont'd)

	201	MPL	FS				
DEPTH (feet)			Blows/ 6	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		REMARKS
16-			4 7		SILTY GRAVEL to GRAVELLY SILT (GM-ML): strong brown (7.5YR 4/6), Moist, angular gravel, no petroleum odor. Increasingly gravelly with depth.	-	No sheen @ 15'
- 17-			6 5			- -	
18-	18.3		6			- -	No sheen @ 17.5'
19-	BH-107-18.3		7 5		▼ Water-saturated	_	
20-					Borehole to total depth 19 feet, 15:35, 9/20/11. Backfilled with cuttings.	- -	No free LNAPL was measured using an oil-water interface probe.
_ 21-						- -	
22-						- -	
23-						_	
24-						_	
25-						_	
26-						_	
27-							
28-						_	
29-						_	
30-						-	
31- -						-	
32-						-	
33							OAKBOREV (REV. 8/2007
					Project No. S	E101	

PROJE	PROJECT: September 2011 Row Soil Sampling Avery Landing				Log of I	Log of Boring No. BH-108				
BORIN	IG LO	CATIO	N:		ELEVATION AND DA	TUM:				
DRILLI	ING C	ONTRA	ACTOR: Bol	and	DATE STARTED: 9/21/11	DATE FINISHI 9/21/11	ED:			
DRILLI	ING M	ETHO	D: Hollov	v-stem auger	TOTAL DEPTH (ft.): 15.0	MEASURING	POINT:			
DRILLI	ING E	QUIPM	ENT: Forem	ost Mobile B-59	DEPTH TO WATER (ff	+ \	COMPL. 13.95			
SAMPI	LING N	ИЕТНО	D: Split spo	on	LOGGED BY: WR Welzenbach					
HAMM	IER WI	EIGHT	: 140 lbs	DROP: 30"	RESPONSIBLE PROI WR Welzenbach	FESSIONAL:	REG. NO. CPSS 329175			
DEPTH (feet)	Sample No.	Sample Sample Blows/		DESCRIPTION NAME (USCS): color, moist, % by wt., plast cementation, react. w/HCl, geo. Surface Elevation:	t. density, structure,		ARKS			
1- 2-		:	2 2 55 55	GRAVELLY SILT (ML): very dark grayish bi subangular, no petroleum odor. WELL GRADED GRAVEL (GW): pale brow angular, poorly sorted, no organic matter, no	rn (10YR 6/3), Dry,	- - - -				
3- 4-	-5.0	1	17 2 3 9	SILTY GRAVEL (GM): strong brown (7.5YR angular, poorly sorted, no petroleum odor.		- No sheen @ 2	2.5'			
5- - 6- - 7-	BH-108-5.0		4 6 6 7	GRAVELLY SILT (ML): yellowish brown (10 well sorted, fine gravel, no petroleum odor.	DYR 5/4), Dry, angular,	No sheen @ 5	5'			
8- - 9-	_		4 5 4 7 5	Wood ash/ cindery material. Black. SILTY GRAVEL (GM): yellowish brown (10' angular, well sorted, no petroleum odor.	YR 5/4), Slightly moist,	No sheen @ 7	7.5'			
10- 10- - 11-			2 1 1 .5	angular, won sorted, no petroleum odol.		 No sheen @ 1 	0'			
12- - 13-	BH-108-12.5	0	.5	SILTY FINE SAND (SM): dark gray (10YR 4 hydrocarbon odor.	4/1), Wet, slight aged	No sheen @ 1	2'			
14 <i>-</i>	_	1 2	3 7 21 2	SANDY FINE GRAVEL (GW): light olive bro Water-saturated, angular, poorly sorted, slig odor.	own (2.5Y 5/3), ht aged hydrocarbon		4.5'			
15-						OAKI	BOREV (REV. 8/2007)			
	Α	ME	C Geoma	ntrix	Project No.	SE1016011 Pag	ge 1 of 2			

Log of Boring No. BH-108 (cont'd)

NAME (USCS): color, note, % by w. plast. density, structure, cementation, react, which gets inter- 16		201	MDI	EQ.								
Cuttings. measured using an oil-water interface probe. measured using an oil-water interface probe. measured using an oil-water interface probe. measured using an oil-water interface probe.	DEPTH (feet)	Sample No.	Sample	Blows/ 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		F	REMARKS			
Cuttings. measured using an oil-water interface probe. measured using an oil-water interface probe. measured using an oil-water interface probe. measured using an oil-water interface probe.						Borehole terminated at 15.0 feet, 11:00, 9/21/11. Backfilled with	+	No free LI	NAPL was			
20	_					cuttings.	-	measured	using an			
18- 19- 20- 21- 22- 23- 24- 25- 26- 27- 28- 29- 30- 31- 31- 32- 33- 33- 0AMBOREY MEN. SONT)	16-						-	on water i	nteriace probe.			
18- 19- 20- 21- 22- 23- 24- 25- 26- 27- 28- 29- 30- 31- 31- 32- 33- 33- 0AMBOREY MEN. SONT)	_						-					
19- 20- 21- 21- 22- 23- 24- 26- 26- 27- 28- 29- 30- 31- 31- 31-	17-						-					
19- 20- 21- 21- 22- 23- 24- 26- 26- 27- 28- 29- 30- 31- 31- 31-	_						-					
20- 21- 22- 23- 23- 24- 25- 26- 27- 29- 30- 31- 31- 32-	18-						-					
20- 21- 22- 23- 23- 24- 25- 26- 27- 29- 30- 31- 31- 32-	-						-					
21- 22- 23- 24- 25- 26- 28- 29- 30- 31- 31- 32- 33-	19-						-					
21- 22- 23- 24- 25- 26- 28- 29- 30- 31- 31- 32- 33-	_						-					
22- 23- 24- 25- 26- 27- 28- 29- 30- 31- 31- 32- 33- 33-	20-						-					
22- 23- 24- 25- 26- 27- 28- 29- 30- 31- 31- 32- 33- 33-	_						-					
23- 24- 25- 26- - 27- - 28- 30- 30- 31- 31- 32- 33-	21-						-					
23- 24- 25- 26- - 27- - 28- 30- 30- 31- 31- 32- 33-	_						-					
24- 25- 26- 27- 28- 30- 31- 31- 32- 32- 33- 0AKBOREV (REV. B/2007)	22-						-					
24- 25- 26- 27- 28- 30- 31- 31- 32- 32- 33- 0AKBOREV (REV. B/2007)	_						-					
25- 26- 27- 28- 29- 30- 31- 31- 32- 33-	23-						-					
25- 26- 27- 28- 29- 30- 31- 31- 32- 33-	_											
26- 27- 28- 29- 30- 31- 31- 32- 33-	24-											
26- 27- 28- 29- 30- 31- 31- 32- 33-	_						-					
27- 28- 29- 30- 31- 32- 32- 33-	25-						-					
27- 28- 29- 30- 31- 32- 32- 33-	_						-					
28 -	26-						-					
28 -	_						-					
29- 30- 31- 32- 33- OAKBOREV (REV. 8/2007)	27-						-					
29- 30- 31- 32- 33- OAKBOREV (REV. 8/2007)	_						-					
30- 31- 32- - 33- - OAKBOREV (REV. 8/2007)	28-						-					
30- 31- 32- - 33- - OAKBOREV (REV. 8/2007)	_											
31- 32- 33- OAKBOREV (REV. 8/2007)	29-											
31- 32- 33- OAKBOREV (REV. 8/2007)	-											
32- - - 33	30-											
32- - - 33	-											
33 OAKBOREV (REV. 8/2007)	31-											
33 OAKBOREV (REV. 8/2007)	_											
OAKBOREV (REV. 8/2007)	32-											
OAKBOREV (REV. 8/2007)	_											
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PROJECT: September 2011 Row Soil Sampling Avery Landing				Log of Boring No. BH-109						
BORIN				<u> </u>			ELEVATION AND DA	ATUM:		
DRILL	ING C	ТИС	RAC	TOR: Bola	and		DATE STARTED: 9/21/11	DATE FINISHED: 9/21/11		IISHED:
DRILL	ING M	ETH	OD:	Hollow	-stem a	uger	TOTAL DEPTH (ft.): 19.0		MEASUR	ING POINT:
DRILL	ING E	QUIF	MEN	IT: Forem	ost Mob	ile B-59	DEPTH TO WATER (ft.) FIF		COMPL. 18.4
SAMP	LING N	ЛЕΤΙ	HOD:	Split spo	on		LOGGED BY: WR Welzenbach			1 1 2 1 1
HAMN	IER W	EIGH	łT:	140 lbs.		DROP: 30"	RESPONSIBLE PRO WR Welzenbach	FESSI	DNAL:	REG. NO. CPSS 329175
DEPTH (feet)	Sample No.	Sample 14	Blows/ C C 6 inches	OVM READING (ppm)		DESCRIPTION NAME (USCS): color, moist, % by wt., plast. de cementation, react. w/HCl, geo. inte	nsity, structure,		F	REMARKS
	S	S	9 В	α	As	Surface Elevation: phalt.				
1- 2- 3- 4- 5- 6- 7-	BH-109-6.0		19 20 20 17 4		SA Slii	NDY GRAVEL WITH SILT (GW): strong broughtly moist, subangular, poorly sorted, no pet	roleum odor.	-	No sheen	
8-	_		9			ood ash/ cindery material. Black. NDY SILT (ML): yellowish brown (10YR 5/6)	Slightly moist no	_	NO SHEET	w 1.5
9- - 10-			9 8 7 6 7			troleum odor. Slightly angular, poorly sorted,		- - - -	No sheen	@ 10'
11- - 12-	-		1 2 2					- - -	No sheen	@ 12'
13- - 14-	-		2 3 3					- - - -		
-			3		Ţ Mo	oist with orange mottling				
15-	٨	М	-C	Geoma	triv		Project No	. SE101	6011	OAKBOREV (REV. 8/2007) Page 1 of 2

Log of Boring No. BH-109 (cont'd)

	SAM	1PLE	ES	(D			
(feet) Sample	No.	Sample	Blows/ 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		REMARKS
			2				No sheen @ 15'
16-			4 7 7	_	SILTY GRAVEL (GM): yellowish brown (10YR 5/4), Very moist, angular coarse gravel, well sorted, no petroleum odor.		
17-			6			_	No sheen @ 17.5'
18 – 18 BH-109-18:2			11		GRAVELLY SAND (SW): brown (10YR 5/3), Wet, subangular gravel, well sorted, no petroleum odor.	_	110 0110011 @ 1110
19- ^m - 20-	i		11		Borehole terminated at 19.0 feet, 8:35, 9/21/11. Backfilled with cuttings, with an asphalt cold patch to 0.2 feet bgs.		No free LNAPL was measured using an oil-water interface probe.
21-						_	
22-						_	
23-						_	
24-						_	
						_	
_ 26_						_	
27-						_	
28-						_	
- !9-						_	
80-						_	
31-							
32-						_	
33						_	
							OAKBOREV (REV. 8/2007
					Project No. S	SE101	16011 Page 2 of 2

Avery Landing	1 Row Soil Sampling	Log of Bo	Log of Boring No. BH-110			
BORING LOCATION:		ELEVATION AND DATU	M:			
DRILLING CONTRACTOR: Bol	and	DATE STARTED: 9/20/11	9/20/11			
DRILLING METHOD: Hollow	v-stem auger	TOTAL DEPTH (ft.): 18.5	MEASUF	RING POINT:		
DRILLING EQUIPMENT: Foren	nost Mobile B-59	DEPTH TO WATER (ft.)	DEPTH TO WATER (ft.) FIRST 18.3			
SAMPLING METHOD: Split spo	oon	LOGGED BY: WR Welzenbach	1	18.3		
HAMMER WEIGHT: 140 lbs	. DROP: 30"	RESPONSIBLE PROFES WR Welzenbach	SSIONAL:	REG. NO. CPSS 329175		
DEPTH (feet) (feet) Sample No. Sample Blows/ 6 inches OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt. cementation, react. w/HC Surface Elevation: Asphalt	N ., plast. density, structure,		REMARKS		
1- 1- 2- 3- 3- 4- 5	SANDY GRAVEL (GW): strong brown angular, poorly sorted, no petroleum of the strong brown angular, poorly sorted, no petroleum of the strong brown angular, poorly sorted, no petroleum of the strong brown angular, poorly sorted, angular, poorly sorted, subangular, well sorted, subangular, well sorted, angular, well sorted, subangular, subangula	dor. (Possibly road base).	No sheer No sheer No sheer No sheer No sheer No sheer	n @ 7.5'		

PROJECT: September 2011 Row Soil Sampling Log of Boring No. BH-110 (cont'd) Avery Landing SAMPLES **REMARKS** Sample No. Sample Blows/ 6 inches **DESCRIPTION** NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. No sheen @ 15' 2 3 16 Very moist 9 8 17 Wood 18-Borehole terminated at 18.5 feet, 17:15, 9/20/11. Backfilled with No free LNAPL was 19 cuttings, with an asphalt cold patch to 0.2 feet bgs. measured using an oil-water interface probe. 20-21 22-23 24 25-26 27-28 29-

30-

31-

32-

33-

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PROJECT: September 2011 Row Soil Sampling Avery Landing						Log of Boring No. BH-111					
BORIN	G LO	CATI	ON:				ELEVATION AND DATUM:				
DRILLING CONTRACTOR: Boland DATE STARTED: 9/22/11								DATE FINISHED: 9/22/11			
DRILLING METHOD: Hollow-stem auger TOTAL DEPTH (ft.): 17.0						DEPTH (ft.):		MEASURI	NG POINT:		
DRILLII	NG E	QUIF	PMEN	IT: Forem	ost N	Nobile B-59	DEPTH 1	TO WATER (ft.)		RST 5. 7	COMPL. 15.58
SAMPL	ING N	ИЕТΙ	HOD:	Split spo	on		LOGGEI WR W	elzenbach	•		
НАММІ	ER WI	EIGH	HT:	140 lbs.		DROP: 30"		NSIBLE PROFES elzenbach	SSI	ONAL:	REG. NO. CPSS 329175
DEPTH (feet)	Sample No.	Sample T	Blows/ C 6 inches	OVM READING (ppm)		DESCRIPTION NAME (USCS): color, moist, % by wt., plast. de cementation, react. w/HCl, geo. inte	nsity, struc	cture,		R	EMARKS
	Sa	Sa	B i	- R		Surface Elevation:					
1-						SILTY GRAVEL (GM): brown (10YR 4/3), Sligh poorly sorted, no petroleum odor.	tly moist,	subangular,	_		
2-			2 50		┰	Dark yellowish brown (10YR 4/6)			_	No sheen	@ 1.5'
3-									_		
_			10 16						_		
4-			28								
5-	well corted fine grovel no netroleum adar					subangular	-	No sheen	@ 5'		
_	BH		17 18			GRAVELLY SILT (ML): dark yellowish brown (1 moist, subangular well sorted fine gravel, no pet			-		© 1
6-			20						F		
7-			19 10						F		
8-			9							No sheen	@ 7.5'
_			8						F		
9-			5 8						F		
10-			12								
			14 12						F	No sheen	@ 10'
11-			9								
12-			8						F	No share	@ 12'
			10 10						-	No sheen	W 12
13-			9								
14-			14						F		
-			14 8						F		
15								I	_		OAKBOREV (REV. 8/2007)
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PROJECT: September 2011 Row Soil Sampling Avery Landing

Log of Boring No. BH-111 (cont'd)

	SA	MPL	ES	(D				
DEPTH (feet)	Sample No.			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		F	REMARKS
_	5.5		4				No sheen	@ 15'
16- -	BH-111-15.5		4 2		SILTY FINE SAND (SM): strong brown (7.5YR 4/6), Water-saturated, no petroleum odor.		volume fo	5.5 includes extra r MS/MSDs
17-			3		Develop to receive the distance of 47.0 feet 44.45, 0/00/44, Developing distributions		No sheen	@ 16.5'
_					Borehole terminated at 17.0 feet, 11:45, 9/22/11. Backfilled with cuttings.	-		
18-						-		
_						-		
19-						-		
_								
20-						-		
21-								
_								
22-						_		
_						-		
23-						-		
_						-		
24-						-		
-						-		
25-								
-								
26-								
27-						_		
						_		
28-						_		
_						_		
29-						-		
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32-								
JZ								
33-								
						<u> </u>		OAKBOREV (REV. 8/2007)
					Project No	. SE10	16011	Page 2 of 2



Memo

To: Naila Moreira Project: SE1016011 From: Crystal Neirby cc: Project File

Tel: (206) 342-1760 Fax: (206) 342-1761 Date: October 10, 2011

Subject: Avery Landing – September 2011 Soil Sampling

Summary Data Quality Review - SDG 259349

This memorandum presents a summary data quality review for analyses of 28 primary soil samples and one soil field duplicate collected between September 20 and 22, 2011. The samples were submitted to Pace Analytical Services, Inc., a Washington State Department of Ecology (Ecology) certified laboratory, located in Seattle, Washington. The samples were analyzed for total petroleum hydrocarbons (TPH) as diesel (TPH-D) and motor oil (TPH-O) by Ecology Method NWTPH-Dx both with and without silica gel cleanup.

The sample IDs, sample collection date, and laboratory sample ID are listed in the table below.

Sample ID	Sample Collection	Laboratory Sample ID
	Date	
BH-101, 6.0	9/22/2011	259349001
BH-101, 12.2	9/22/2011	259349002
BH-102, 6.0	9/22/2011	259349003
BH-102, 9.0	9/22/2011	259349004
BH-102, 13.5	9/22/2011	259349005
BH-103, 6.0	9/22/2011	259349006
BH-103, 12.5	9/22/2011	259349007
BH-103, 13.4	9/22/2011	259349008
BH-103, 16.5	9/22/2011	259349009
BH-104, 5.0	9/21/2011	259349010
BH-104, 12.0	9/21/2011	259349011
BH-104, 16.5	9/21/2011	259349012
BH-105, 5.0	9/21/2011	259349013
BH-105, 12.5	9/21/2011	259349014
BH-105, 16.0	9/21/2011	259349015
BH-106, 5.0	9/21/2011	259349016
BH-106, 11.0	9/21/2011	259349017
BH-106, 14.5	9/21/2011	259349018
BH-107, 5.0	9/20/2011	259349019

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Sample ID	Sample Collection	Laboratory Sample ID
	Date	
BH-107, 18.3	9/20/2011	259349020
BH-108, 5.0	9/21/2011	259349021
BH-108, 12.5	9/21/2011	259349022
BH-109, 6.0	9/21/2011	259349023
BH-109, 18.2	9/21/2011	259349024
BH-110, 5.0	9/20/2011	259349025
BH-110, 16.5	9/20/2011	259349026
BH-111, 5.0	9/22/2011	259349027
BH-111, 15.5	9/22/2011	259349028
DUP		259349029

Upon receipt by the laboratory, the sample jar information was compared to the chain-of-custody forms. The temperatures of the coolers were recorded as part of the check-in procedure, and were less than the maximum acceptable temperature of 6°C. The laboratory noted a 5-minute discrepancy in the sample times for samples BH-103, 16.5 and BH-110, 16.5. AMEC project personnel were notified of the discrepancies via email, and the laboratory proceeded with analyses based on the information provided to them.

The sample extracts were initially analyzed between September 27 and October 1, 2011. The sample extracts were then reanalyzed after a silica gel cleanup procedure was performed, in compliance with the QAPP. All of the analyses were performed within the holding time. The initial analyses performed without silica gel cleanup are not reported, as they were not in project compliance. The results were included in the data package; however, the results were not reviewed, were not included in the report, and are not included further in this data review memo. The results are flagged "DNR" for "do not report" to reflect that they are not included.

The analytical results for these samples were reviewed in accordance with the requirements specified in U.S. Environmental Protection Agency (EPA) National Functional Guidelines (EPA, 2008), the analytical methods referenced by the laboratory, AMEC data review procedures, the project-specific Quality Assurance Project Plan (QAPP) (AMEC, 2011), and the laboratory quality control limits. The EPA guidelines referenced above were written specifically for the Contract Laboratory Program, and have been modified for the purposes of this data quality review where they differ from requirements for Ecology's NWTPH method.

The certified laboratory reports were reviewed to assess the following: chain-of-custody compliance; holding time compliance; presence or absence of laboratory contamination as demonstrated by method blanks; laboratory control samples (LCS); analytical precision as the relative percent (%) difference between replicate sample results (i.e., laboratory and field duplicates) surrogate recoveries; and reporting limits and laboratory qualifiers. This data quality review did not include review of the raw analytical data.

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Samples were analyzed using the methods identified in the introduction to this report and were evaluated for the following criteria.

- 1. Holding Times Acceptable
- 2. Blanks Acceptable.
- 3. LCS Acceptable.
- 4. Laboratory Duplicates Acceptable
- 5. Field Duplicates Acceptable

Sample DUP was collected as the field duplicate of sample BH-101, 12.2. Detected results and the relative percent differences (RPDs) for the primary and field duplicate samples are summarized in the following table. Precision values exceeded the limits for data usability of 50 percent for concentrations greater than five times the reporting limit. For results less than five times the reporting limit, the absolute value of the difference between the primary and duplicate was less than the value of the reporting limit. The diesel results in samples BH-101, 12.2 and DUP are qualified as estimated and flagged with a "J" due to the high field duplicate RPD.

Analyte	Reporting Limit	Primary Result	Duplicate Result	RPD	Qualification
TPH-Diesel	21.2	388	907	80	primary and duplicate qualified as estimated.
TPH-Motor Oil	84.7	ND	ND	NC	none

Notes

NC = Not Calculated.

ND = Not Detected.

Units expressed as mg/kg unless otherwise indicated.

- 6. Surrogates Acceptable
- 7. Reporting Limits and Laboratory Flags Acceptable.

OVERALL ASSESSMENT OF DATA

The data reported under Pace project number 259349 are 100% complete. Assessment of the data usability is based on EPA's guidance documents. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives.

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TABLE 1 SAMPLE IDENTIFICATIONS AND QUALIFIED RESULTS

Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
BH-101, 6.0	none			
BH-101, 12.2	diesel range	388 J	mg/kg	field duplicate RPD
BH-102, 6.0	none			
BH-102, 9.0	none			
BH-102, 13.5	none			
BH-103, 6.0	none			
BH-103, 12.5	none			
BH-103, 13.4	none			
BH-103, 16.5	none			
BH-104, 5.0	none			
BH-104, 12.0	none			
BH-104, 16.5	none			
BH-105, 5.0	none			
BH-105, 12.5	none			
BH-105, 16.0	none			
BH-106, 5.0	none			
BH-106, 11.0	none			
BH-106, 14.5	none			
BH-107, 5.0	none			
BH-107, 18.3	none			
BH-108, 5.0	none			
BH-108, 12.5	none			
BH-109, 6.0	none			
BH-109, 18.2	none			
BH-110, 5.0	none			
BH-110, 16.5	none			
BH-111, 5.0	none			
BH-111, 15.5	none			
DUP	diesel (SG)	907 J	mg/kg	field duplicate RPD

Notes RPD = relative percent difference J = result is estimated mg/kg = milligrams per kilogram

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REFERENCES

AMEC, 2011, Quality Assurance Project Plan, Appendix A to the FHWA Right-of-Way Investigation, Prepared for Western Federal Lands Highway Division, Vancouver, Washington, August.

EPA (U.S. Environmental Protection Agency), 2008, U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-08-001, June.





October 14, 2011

Naila Moreira AMEC 600 University Suite 600 Seattle, WA 98101

RE: Project: Avery Landing

Pace Project No.: 259349

Dear Naila Moreira:

Enclosed are the analytical results for sample(s) received by the laboratory on September 24, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

Amended Report, REV-1 10/11/11. Client added Silica Gel cleanup to the NWTPHDx.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Brownfield

Andy Brownfield

andy.brownfield@pacelabs.com Project Manager

Enclosures

cc: Gary Dupuy, AMEC

Wilhelm Welzenbach, AMEC





Pace Analytical Services, Inc.

940 South Harney Seattle, WA 98108 (206)767-5060

CERTIFICATIONS

Project:

Avery Landing

Pace Project No.:

259349

Washington Certification IDs

940 South Harney Street, Seattle, WA 98108 Alaska CS Certification #: UST-025 Arizona Certification #: AZ0770 California Certification #: 01153CA

Florida/NELAP Certification #: E87617 Oregon Certification #: WA200007 Washington Certification #: C555





SAMPLE ANALYTE COUNT

Project:

Avery Landing

Pace Project No.:

259349

Lab ID	Sample ID Method		Analysts	Analytes Reported	Laboratory	
259349001	BH-101, 6.0	NWTPH-Dx	AY1	4	PASI-S	
		NWTPH-Dx	DMT	4	PASI-S	
		ASTM D2974-87	KJ1	1	PASI-S	
259349002	BH-101, 12.2	NWTPH-Dx	AY1	4	PASI-S	
		NWTPH-Dx	DMT	4	PASI-S	
		ASTM D2974-87	KJ1	1	PASI-S	
259349003	BH-102, 6.0	NWTPH-Dx	AY1	4	PASI-S	
		NWTPH-Dx	DMT	4	PASI-S	
		ASTM D2974-87	KJ1	1	PASI-S	
259349004	BH-102, 9.0	NWTPH-Dx	AY1	4	PASI-S	
		NWTPH-Dx	DMT	4	PASI-S	
		ASTM D2974-87	KJ1	1	PASI-S	
259349005	BH-102, 13.5	NWTPH-Dx	AY1	4	PASI-S	
		NWTPH-Dx	DMT	4	PASI-S	
		ASTM D2974-87	KJ1	1	PASI-S	
259349006	BH-103, 6.0	NWTPH-Dx	AY1	4	PASI-S	
	,	NWTPH-Dx	DMT	4	PASI-S	
		ASTM D2974-87	KJ1	1	PASI-S	
259349007	BH-103, 12.5	NWTPH-Dx	AY1	4	PASI-S	
		NWTPH-Dx	DMT	4	PASI-S	
		ASTM D2974-87	KJ1	1	PASI-S	
259349008	BH-103, 13.4	NWTPH-Dx	AY1	4	PASI-S	
		NWTPH-Dx	DMT	4	PASI-S	
		ASTM D2974-87	KJ1	1	PASI-S	
259349009	BH-103, 16.5	NWTPH-Dx	AY1	4	PASI-S	
		NWTPH-Dx	DMT	4	PASI-S	
		ASTM D2974-87	KJ1	1	PASI-S	
259349010	BH-104, 5.0	NWTPH-Dx	AY1	4	PASI-S	
		NWTPH-Dx	DMT	4	PASI-S	
		ASTM D2974-87	KJ1	1	PASI-S	
259349011	BH-104, 12.0	NWTPH-Dx	AY1	4	PASI-S	
		NWTPH-Dx	DMT	4	PASI-S	
		ASTM D2974-87	KJ1	1	PASI-S	
259349012	BH-104, 16.5	NWTPH-Dx	AY1	4	PASI-S	
		NWTPH-Dx	DMT	4	PASI-S	
	,	ASTM D2974-87	KJ1	1	PASI-S	
259349013	BH-105, 5.0	NWTPH-Dx	AY1	4	PASI-S	

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project:

Avery Landing

Pace Project No.:

259349

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		NWTPH-Dx	 DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349014	BH-105, 12.5	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349015	BH-105, 16.5	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349016	BH-106,5.0	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349017	BH-106, 11.0	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349018	BH-106, 14.5	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349019	BH-107, 5.0	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349020	BH-107, 18.3	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349021	BH-108, 5.0	NWTPH-Dx	AY1	4	PASI-S
•		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349022	BH-108, 12.5	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349023	BH-109, 6.0	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
	•	ASTM D2974-87	KJ1	1	PASI-S
259349024	BH-109, 18.2	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349025	BH-110, 5.0	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project:

Avery Landing

Pace Project No.:

259349

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	 KJ1	1	PASI-S
259349026	BH-110, 16.5	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349027	BH-111, 5.0	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349028	BH-111, 15.5	NWTPH-Dx	AY1	4	PASI-S
•		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
259349029	DUP	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Dx	DMT	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S



ANALYTICAL RESULTS

Project:	
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Avery Landing

Pace Project No.:

Date: 10/14/2011 04:02 PM

259349

Sample: BH-101, 6.0	Lab ID: 2	259349001	Collected: 09/	22/11 12:5	5 Received: 0	9/24/11 10:25	Matrix: Solid	
Results reported on a "dry-weigl	ht" basis							
Parameters	Results	Units	Report Lim	nit DF	Prepared	Analyzed	CAS No.	Qua
NWTPH-Dx GCS	Analytical N	lethod: NWTP	H-Dx Preparation	n Method:	EPA 3546			
Diesel Range	1000	mg/kg DN	2 1	66 10	09/27/11 12:20	09/29/11 23:44	ļ	
Motor Oil Range	4570	mg/kg	2 6	62 10	09/27/11 12:20	09/29/11 23:44	64742-65-0	
n-Octacosane (S)		%	50-1	50 10	09/27/11 12:20	09/29/11 23:44	630-02-4	S4
o-Terphenyl (S)	0	%	50-1	50 10	09/27/11 12:20	09/29/11 23:44	84-15-1	S4
NWTPH-Dx GCS Silica Gel	Analytical M	lethod: NWTP	H-Dx Preparation	n Method:	EPA 3546			
Diesel Range SG	584	mg/kg	16	5.6 1	09/27/11 12:20	10/13/11 00:57	,	
Motor Oil Range SG	2510	mg/kg	66	3.2 1	09/27/11 12:20	10/13/11 00:57	64742-65-0	
n-Octacosane (S) SG	76	%	50-1	50 1	09/27/11 12:20	10/13/11 00:57	630-02-4	
o-Terphenyl (S) SG	89	%	50-1	50 1	09/27/11 12:20	10/13/11 00:57	84-15-1	
Percent Moisture	Analytical N	lethod: ASTM	D2974-87					
Percent Moisture	9.4	%	0.	10 1		09/27/11 15:32	?	•
Sample: BH-101, 12.2	Lab ID: 2	259349002	Collected: 09/	22/11 13:1	5 Received: 0	9/24/11 10:25 I	Matrix: Solid	
Results reported on a "dry-weigl	ht" basis							
Parameters	Results	Units	Report Lim	nit DF	Prepared	Analyzed	CAS No.	Qua
NWTPH-Dx GCS	Analytical N	Method: NWTP	H-Dx Preparation	n Method:	EPA 3546			
Diesel Range	430	mg/kg DNE) 2	1.2 1	09/27/11 12:20	09/28/11 19:46	5	
Motor Oil Range		mg/kg 🏒		4.7 1	09/27/11 12:20	09/28/11 19:46	6 64742-65-0	
n-Octacosane (S)	85	%	50-1	50 1	09/27/11 12:20	09/28/11 19:46	630-02-4	
o-Terphenyl (S)	90	%	50-1	50 1	09/27/11 12:20	09/28/11 19:46	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical N	lethod: NWTP	H-Dx Preparation	n Method:	EPA 3546			
Diesel Range SG	388	mg/kg J	2.	1.2 1	09/27/11 12:20	10/13/11 01:21		
Motor Oil Range SG		mg/kg	84	4.7 1	09/27/11 12:20	10/13/11 01:21	64742-65-0	
n-Octacosane (S) SG	80		50-1	50 1	09/27/11 12:20	10/13/11 01:21	630-02-4	
o-Terphenyl (S) SG	80	%	50-1	50 1	09/27/11 12:20	10/13/11 01:21	84-15-1	
Percent Moisture	Analytical M	Method: ASTM	D2974-87				•	
Percent Moisture	26.7	%	0.	10 1		09/27/11 15:33	3	
			Collected: 09/	22/11 07:5	0 Received: 0	9/24/11 10:25	Matrix: Solid	
Sample: BH-102, 6.0	Lab ID: 2	259349003						
•		259349003						
•		259349003 Units	Report Lim	nit DF	Prepared	Analyzed	CAS No.	Qua
Results reported on a "dry-weigl Parameters	ht" basis Results	Units			,	Analyzed	CAS No.	Qua
NWTPH-Dx GCS	ht" basis Results Analytical M	Units Method: NWTP	Report Lim	n Method:	EPA 3546	_ 		Qua
Results reported on a "dry-weight Parameters	ht" basis Results Analytical M	Units	Report Lim		EPA 3546 09/27/11 12:20	Analyzed 0 09/29/11 21:13 0 09/29/11 21:13	3	Qua

REPORT OF LABORATORY ANALYSIS

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Project:

Avery Landing

Pace Project No.:

259349

Sample:	BH-102	60
Campic.	₩II" : V&,	0.0

Lab ID: 259349003

Lab ID: 259349004

Collected: 09/22/11 07:50

Received: 09/24/11 10:25 M

Received: 09/24/11 10:25

Matrix: Solid

Matrix: Solid

and oone

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Me	thod: NWTPH-	Dx Preparation Me	ethod: I	EPA 3546			
o-Terphenyl (S)	103 %		50-150	1	09/27/11 12:20	09/29/11 21:13	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Me	thod: NWTPH-	Dx Preparation Me	ethod: I	EPA 3546			
Diesel Range SG	132 m	ng/kg	18.2	1	09/27/11 12:20	10/13/11 01:45		
Motor Oil Range SG	ND m	ng/kg	72.7	1	09/27/11 12:20	10/13/11 01:45	64742-65-0	
n-Octacosane (S) SG	90 %	, D	50-150	1	09/27/11 12:20	10/13/11 01:45	630-02-4	
o-Terphenyl (S) SG	88 %	,	50-150	1	09/27/11 12:20	10/13/11 01:45	84-15-1	
Percent Moisture	Analytical Me	thod: ASTM D2	2974-87					
Percent Moisture	17.4 %	, D	0.10	1		09/27/11 15:33		

Collected: 09/22/11 08:00

Results reported on a "dry-weigh	ht" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Met	hod: NWTPH-D	x Preparation Me	ethod: E	EPA 3546			
Diesel Range	412 m	g/kgDNR	18.8	1	09/27/11 12:20	09/29/11 21:30		
Motor Oil Range	193 m	g/kg 🍶	75.3	1	09/27/11 12:20	09/29/11 21:30	64742-65-0	
n-Octacosane (S)	83 %		50-150	1	09/27/11 12:20	09/29/11 21:30	630-02-4	
o-Terphenyl (S)	84 %		50-150	1	09/27/11 12:20	09/29/11 21:30	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Met	hod: NWTPH-D	x Preparation Me	ethod: E	EPA 3546			
Diesel Range SG	437 m	g/kg	18.8	1	09/27/11 12:20	10/13/11 02:58		
Motor Oil Range SG	144 m	g/kg	75.3	1	09/27/11 12:20	10/13/11 02:58	64742-65-0	
n-Octacosane (S) SG	91 %		50-150	1	09/27/11 12:20	10/13/11 02:58	630-02-4	
o-Terphenyl (S) SG	92 %		50-150	1	09/27/11 12:20	10/13/11 02:58	84-15-1	
Percent Moisture	Analytical Met	hod: ASTM D29	74-87					
Percent Moisture	18.9 %		0.10	1		09/27/11 15:34		

Sample: BH-102, 13.5	
----------------------	--

Lab ID: 259349005

Units

Results

Collected: 09/22/11 08:20

DF

Report Limit

Received: 09/24/11 10:25

Analyzed

Prepared

CAS No.

Matrix: Solid

Results reported on a "dry-weight" basis

Parameters

NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	880 mg/kg	19.6	1	09/27/11 12:20	09/29/11 21:46			
Motor Oil Range	880 mg/kg 394 mg/kg 394 mg/kg	78.3	1	09/27/11 12:20	09/29/11 21:46	64742-65-0		
n-Octacosane (S)	79 %	50-150	1	09/27/11 12:20	09/29/11 21:46	630-02-4		
o-Terphenyl (S)	85 %	50-150	1	09/27/11 12:20	09/29/11 21:46	84-15-1		

Date: 10/14/2011 04:02 PM

REPORT OF LABORATORY ANALYSIS

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Qual





Project:

Percent Moisture

Sample: BH-103, 12.5

Date: 10/14/2011 04:02 PM

Avery Landing

ANALYTICAL RESULTS

Sample: BH-102, 13.5	Lab ID: 25934	19005	Collected: 09/22/1	1 08:20	Received: 09	/24/11 10:25 N	latrix: Solid	
Results reported on a "dry-weigl	ht" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel	Analytical Metho	d: NWTPH-	Dx Preparation Me	thod: E	PA 3546			
Diesel Range SG	1850 mg/l	kg	19.6	1	09/27/11 12:20	10/13/11 03:22		
Motor Oil Range SG	581 mg/l	kg	78.3	1	09/27/11 12:20	10/13/11 03:22	64742-65-0	
n-Octacosane (S) SG	89 %		50-150	1	09/27/11 12:20	10/13/11 03:22	630-02-4	
o-Terphenyl (S) SG	101 %		50-150	1	09/27/11 12:20	10/13/11 03:22	84-15-1	
Percent Moisture	Analytical Metho	d: ASTM D2	2974-87					
Percent Moisture	20.9 %		0.10	1		09/27/11 15:35		
Sample: BH-103, 6.0	Lab ID: 25934	19006	Collected: 09/22/1	1 09:40	Received: 09	/24/11 10:25 N	latrix: Solid	
Results reported on a "dry-weigl	ht" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
NWTPH-Dx GCS	Analytical Metho	d: NWTPH-	Dx Preparation Me	thod: E	PA 3546			
	·	od: NWTPH- kg ひんぱん	Dx Preparation Me 17.4	thod: E	PA 3546 09/27/11 12:20	09/29/11 22:03		
Diesel Range	·	kg DNR	·		09/27/11 12:20	09/29/11 22:03 09/29/11 22:03	64742-65-0	
Diesel Range Motor Oil Range	24.7 mg/l	kg DNR	17.4	1	09/27/11 12:20 09/27/11 12:20			
Diesel Range Motor Oil Range n-Octacosane (S)	24.7 mg/l 132 mg/l	kg DNR	17.4 69.4	1 1	09/27/11 12:20 09/27/11 12:20 09/27/11 12:20	09/29/11 22:03	630-02-4	
Diesel Range Motor Oil Range n-Octacosane (S) o-Terphenyl (S)	24.7 mg/l 132 mg/l 79 % 84 %	kg Drift kg J	17.4 69.4 50-150	1 1 1	09/27/11 12:20 09/27/11 12:20 09/27/11 12:20 09/27/11 12:20	09/29/11 22:03 09/29/11 22:03	630-02-4	
Diesel Range Motor Oil Range n-Octacosane (S) o-Terphenyl (S) NWTPH-Dx GCS Silica Gel	24.7 mg/l 132 mg/l 79 % 84 %	kg DNIR kg j	17.4 69.4 50-150 50-150	1 1 1	09/27/11 12:20 09/27/11 12:20 09/27/11 12:20 09/27/11 12:20	09/29/11 22:03 09/29/11 22:03 09/29/11 22:03	630-02-4	
Diesel Range Motor Oil Range n-Octacosane (S) o-Terphenyl (S) NWTPH-Dx GCS Silica Gel Diesel Range SG	24.7 mg/l 132 mg/l 79 % 84 % Analytical Metho	kg Drik kg j od: NWTPH- kg	17.4 69.4 50-150 50-150 Dx Preparation Me	1 1 1 1 ethod: E	09/27/11 12:20 09/27/11 12:20 09/27/11 12:20 09/27/11 12:20 PA 3546 09/27/11 12:20	09/29/11 22:03 09/29/11 22:03 09/29/11 22:03	630-02-4 84-15-1	
Diesel Range Motor Oil Range n-Octacosane (S) o-Terphenyl (S) NWTPH-Dx GCS Silica Gel Diesel Range SG Motor Oil Range SG	24.7 mg/l 132 mg/l 79 % 84 % Analytical Metho ND mg/l	kg Drik kg j od: NWTPH- kg	17.4 69.4 50-150 50-150 Dx Preparation Me	1 1 1 1 ethod: E	09/27/11 12:20 09/27/11 12:20 09/27/11 12:20 09/27/11 12:20 PA 3546 09/27/11 12:20 09/27/11 12:20	09/29/11 22:03 09/29/11 22:03 09/29/11 22:03 10/13/11 04:11	630-02-4 84-15-1 64742-65-0	
NWTPH-Dx GCS Diesel Range Motor Oil Range n-Octacosane (S) o-Terphenyl (S) NWTPH-Dx GCS Silica Gel Diesel Range SG Motor Oil Range SG n-Octacosane (S) SG o-Terphenyl (S) SG	24.7 mg/l 132 mg/l 79 % 84 % Analytical Metho ND mg/l ND mg/l	kg Drik kg j od: NWTPH- kg	17.4 69.4 50-150 50-150 Dx Preparation Me 17.4 69.4	1 1 1 1 thod: E 1	09/27/11 12:20 09/27/11 12:20 09/27/11 12:20 09/27/11 12:20 PA 3546 09/27/11 12:20 09/27/11 12:20 09/27/11 12:20	09/29/11 22:03 09/29/11 22:03 09/29/11 22:03 10/13/11 04:11 10/13/11 04:11	630-02-4 84-15-1 64742-65-0 630-02-4	

Results reported on a "dry-weigl	nt" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Met	hod: NWTPH-D	x Preparation M	ethod:	EPA 3546			
Diesel Range	ND m	g/kg DNR	16.7	1	09/27/11 12:20	09/28/11 20:37		
Motor Oil Range	ND m	g/kg 🅠	66.6	1	09/27/11 12:20	09/28/11 20:37	64742-65-0	
n-Octacosane (S)	96 %	•	50-150	1	09/27/11 12:20	09/28/11 20:37	630-02-4	
o-Terphenyl (S)	98 %		50-150	1	09/27/11 12:20	09/28/11 20:37	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Met	hod: NWTPH-D	x Preparation M	ethod:	EPA 3546			
Diesel Range SG	ND m	g/kg	16.7	1	09/27/11 12:20	10/13/11 04:36		
Motor Oil Range SG	ND m	g/kg	66.6	1	09/27/11 12:20	10/13/11 04:36	64742-65-0	
n-Octacosane (S) SG	87 %		50-150	1	09/27/11 12:20	10/13/11 04:36	630-02-4	

0.10

Collected: 09/22/11 09:50

1

09/27/11 15:35

Received: 09/24/11 10:25

12.9 %

Lab ID: 259349007

REPORT OF LABORATORY ANALYSIS

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Project:
Pace Project No.:

Avery Landing

259349

Sam	ple:	BH-1	03,	12.5

Lab ID: 259349007

Collected: 09/22/11 09:50

Report Limit

Received: 09/24/11 10:25

Prepared

Matrix: Solid

Matrix: Solid

CAS No.

Qual

NWTPH-Dx GCS Silica Gel

Results reported on a "dry-weight" basis

Parameters

Analytical Method: NWTPH-Dx Preparation Method: EPA 3546

Units

Analytical Method: ASTM D2974-87

o-Terphenyl (S) SG

83 %

50-150

09/27/11 12:20 10/13/11 04:36 84-15-1

Received: 09/24/11 10:25

Received: 09/24/11 10:25

Percent Moisture Percent Moisture

11.9 %

Results

0.10

DF

09/27/11 15:36

Analyzed

Sample: BH-103, 13.4

Lab ID: 259349008

Lab ID: 259349009

Collected: 09/22/11 10:10

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Meth	nod: NWTPH-D	x Preparation Me	ethod: I	EPA 3546			
Diesel Range	ND mg	g/kg DNR	19.9	1	09/29/11 13:30	09/30/11 20:04		
Motor Oil Range	ND mg	g/kg 🎝 ∕	79.6	1	09/29/11 13:30	09/30/11 20:04	64742-65-0	
n-Octacosane (S)	84 %	**	50-150	1	09/29/11 13:30	09/30/11 20:04	630-02-4	
o-Terphenyl (S)	82 %		50-150	1	09/29/11 13:30	09/30/11 20:04	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Meth	nod: NWTPH-D	x Preparation Me	ethod:	EPA 3546			
Diesel Range SG	ND mg	g/kg	19.9	1	09/29/11 13:30	10/13/11 05:00		
Motor Oil Range SG	ND mg	g/kg	79.6	1	09/29/11 13:30	10/13/11 05:00	64742-65-0	
n-Octacosane (S) SG	88 %		50-150	1	09/29/11 13:30	10/13/11 05:00	630-02-4	
o-Terphenyl (S) SG	84 %		50-150	1	09/29/11 13:30	10/13/11 05:00	84-15-1	
Percent Moisture	Analytical Meth	nod: ASTM D29	74-87					
Percent Moisture	20.6 %		0.10	1		09/27/11 15:37		

Sample:	BH-103,	16.5	
D			

Results reported on a "dry-weight	t" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Met	x Preparation Me	ethod:	EPA 3546				
Diesel Range	ND mg/kg		17.3	1	09/29/11 13:30	09/30/11 20:29		
Motor Oil Range	ND m	g/kg 🎶	69.4	1	09/29/11 13:30	09/30/11 20:29	64742-65-0	
n-Octacosane (S)	82 %		50-150	1	09/29/11 13:30	09/30/11 20:29	630-02-4	
o-Terphenyl (S)	80 %		50-150	1	09/29/11 13:30	09/30/11 20:29	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Met	hod: NWTPH-D	x Preparation Me	ethod:	EPA 3546			
Diesel Range SG	ND m	g/kg	17.3	1	09/29/11 13:30	10/13/11 05:25		
Motor Oil Range SG	ND m	g/kg	69.4	1	09/29/11 13:30	10/13/11 05:25	64742-65-0	
n-Octacosane (S) SG	89 %		50-150	1	09/29/11 13:30	10/13/11 05:25	630-02-4	
o-Terphenyl (S) SG	84 %		50-150	1	09/29/11 13:30	10/13/11 05:25	84-15-1	

Collected: 09/22/11 10:20

Date: 10/14/2011 04:02 PM

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ANALYTICAL RESULTS

Project: Avery Landing
Pace Project No.: 259349

Sample: BH-103, 16.5 Lab ID: 259349009 Collected: 09/22/11 10:20 Received: 09/24/11 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **14.6** % 0.10 1 09/28/11 16:07

Sample: BH-104, 5.0 Lab ID: 259349010 Collected: 09/21/11 16:53 Received: 09/24/11 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual		
NWTPH-Dx GCS	Analytical Met	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546								
Diesel Range	789 m	g/kg TNP	87.2	5	09/29/11 13:30	09/30/11 14:34				
Motor Oil Range	3030 m		349	5	09/29/11 13:30	09/30/11 14:34	64742-65-0			
n-Octacosane (S)	81 %	10°	50-150	5	09/29/11 13:30	09/30/11 14:34	630-02-4			
o-Terphenyl (S)	84 %	50-150	5	09/29/11 13:30	09/30/11 14:34	84-15-1				
NWTPH-Dx GCS Silica Gel	Analytical Met	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546								
Diesel Range SG	539 m	g/kg	17.4	1	09/29/11 13:30	10/13/11 05:50				
Motor Oil Range SG	1870 m	g/kg	69.8	1	09/29/11 13:30	10/13/11 05:50	64742-65-0			
n-Octacosane (S) SG	85 %	•	50-150	1	09/29/11 13:30	10/13/11 05:50	630-02-4			
o-Terphenyl (S) SG	85 %		50-150	1	09/29/11 13:30	10/13/11 05:50	84-15-1			
Percent Moisture	Analytical Met	hod: ASTM D2	974-87							
Percent Moisture	12.8 %)	0.10	1		09/28/11 16:08				

Sample: BH-104, 12.0 Lab ID: 259349011 Collected: 09/21/11 17:15 Received: 09/24/11 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Met	hod: NWTPH-C	x Preparation Me	ethod:	EPA 3546			
Diesel Range	67.8 m	g/kg ONL	17.8	1	09/29/11 13:30	09/30/11 20:55		
Motor Oil Range	ND m		71.1	1	09/29/11 13:30	09/30/11 20:55	64742-65-0	
n-Octacosane (S)	84 %		50-150	1	09/29/11 13:30	09/30/11 20:55	630-02-4	
o-Terphenyl (S)	82 %		50-150	1	09/29/11 13:30	09/30/11 20:55	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Met	hod: NWTPH-D	x Preparation Me	ethod:	EPA 3546	i		
Diesel Range SG	55.1 m	g/kg	17.8	1	09/29/11 13:30	10/13/11 06:14		
Motor Oil Range SG	ND m	g/kg	71.1	1	09/29/11 13:30	10/13/11 06:14	64742-65-0	
n-Octacosane (S) SG	89 %		50-150	1	09/29/11 13:30	10/13/11 06:14	630-02-4	
o-Terphenyl (S) SG	84 %		50-150	1	09/29/11 13:30	10/13/11 06:14	84-15-1	
Percent Moisture	Analytical Met	hod: ASTM D29	974-87					
Percent Moisture	16.1 %		0.10	1		09/28/11 16:08		

Date: 10/14/2011 04:02 PM

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project:

Avery Landing

Pace Project No.:

259349

Sample: BH-104, 16.5

Lab ID: 259349012

Collected: 09/21/11 17:30 Received: 09/24/11 10:25

Results rep	orted on	a "dr	y-weight"	basis
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Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Meth	nod: NWTPH-	Dx Preparation Me	ethod:	EPA 3546			
Diesel Range	327 mg	g/kg DNA	24.6	1	09/29/11 13:30	09/30/11 21:20		
Motor Oil Range	143 mg	g/kg 💜	98.4	1	09/29/11 13:30	09/30/11 21:20	64742-65-0	
n-Octacosane (S)	83 %		50-150	1	09/29/11 13:30	09/30/11 21:20	630-02-4	
o-Terphenyl (S)	82 %		50-150	1	09/29/11 13:30	09/30/11 21:20	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Meth	nod: NWTPH-	Dx Preparation Me	ethod:	EPA 3546			
Diesel Range SG	296 mg	g/kg	24.6	1	09/29/11 13:30	10/13/11 07:29		
Motor Oil Range SG	112 mg	g/kg	98.4	1	09/29/11 13:30	10/13/11 07:29	64742-65-0	
n-Octacosane (S) SG	87 %		50-150	1	09/29/11 13:30	10/13/11 07:29	630-02-4	
o-Terphenyl (S) SG	84 %		50-150	1	09/29/11 13:30	10/13/11 07:29	84-15-1	
Percent Moisture	Analytical Meth	nod: ASTM D2	2974-87					
Percent Moisture	38.6 %		0.10	1		09/28/11 16:09		

Sample: BH-105, 5.0	Lab ID: 259349013	Collected:	09/21/11 14:45	Received:	09/24/11 10:25	Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results —	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
NWTPH-Dx GCS	Analytical Metho	od: NWTPH-I	Ox Preparation Me	ethod:	EPA 3546				
Diesel Range	955 mg.	/kg DNG	96.0	5	09/29/11 13:30	09/30/11 15:00			
Motor Oil Range	4350 mg/	/kg 😾	384	5	09/29/11 13:30	09/30/11 15:00	64742-65-0		
n-Octacosane (S)	75 %	50-150	5	09/29/11 13:30	09/30/11 15:00	630-02-4			
o-Terphenyl (S)	78 %		50-150	5	09/29/11 13:30	09/30/11 15:00	84-15-1		
NWTPH-Dx GCS Silica Gel	Analytical Metho	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range SG	605 mg/	/kg	19.2	1	09/29/11 13:30	10/13/11 07:53			
Motor Oil Range SG	2870 mg.	/kg	76.8	1	09/29/11 13:30	10/13/11 07:53	64742-65-0		
n-Octacosane (S) SG	83 %		50-150	1	09/29/11 13:30	10/13/11 07:53	630-02-4		
o-Terphenyl (S) SG	80 %		50-150	1	09/29/11 13:30	10/13/11 07:53	84-15-1		
Percent Moisture	Analytical Metho	od: ASTM D2	974-87						
Percent Moisture	21.5 %		0.10	1		09/28/11 16:10			

Sample: BH-105, 12.5	Lab ID: 259349014	Collected:	09/21/11 15:05	Received:	09/24/11 10:25	Matrix: Solid			
Paralla vanantad an a Helm variabett basis									

Units

Results reported on a "dry-weight" basis

Parameters

Results

NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Pi	eparation Me	thod: I	EPA 3546		***************************************
Diesel Range	50.0 mg/kg ND mg/kg	18.2	1	09/29/11 13:30	09/30/11 22:37	
Motor Oil Range	ND mg/kg	72.6	1	09/29/11 13:30	09/30/11 22:37	64742-65-0
n-Octacosane (S)	85 %	50-150	1	09/29/11 13:30	09/30/11 22:37	630-02-4

Date: 10/14/2011 04:02 PM

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Report Limit

DF

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Qual

CAS No.

Prepared

Analyzed





Proj	ect:	
-	· ·	k (

Avery Landing

Pace Project No.:

259349

Sample: BH-105, 12.5	Lab ID: 2593	49014	Collected: 09/21/1	1 15:05	Received: 09	0/24/11 10:25	Matrix: Solid	
Results reported on a "dry-weig	ht" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Meth	od: NWTPH	I-Dx Preparation Me	thod: E	PA 3546			
o-Terphenyl (S)	83 %		50-150	1	09/29/11 13:30	09/30/11 22:37	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Meth	od: NWTPH	I-Dx Preparation Me	thod: E	PA 3546			
Diesel Range SG	40.5 mg	/kg	18.2	1	09/29/11 13:30	10/13/11 08:18	3	
Motor Oil Range SG	ND mg	/kg	72.6	1	09/29/11 13:30	10/13/11 08:18	64742-65-0	
n-Octacosane (S) SG	92 %		50-150	1	09/29/11 13:30	10/13/11 08:18	630-02-4	
o-Terphenyl (S) SG	86 %		50-150	1	09/29/11 13:30	10/13/11 08:18	84-15-1	
Percent Moisture	Analytical Meth	Analytical Method: ASTM D2974-87						
Percent Moisture	14.6 %		0.10	1		09/28/11 16:11		
Sample: BH-105, 16.5	Lab ID: 2593	40015	Collected: 09/21/1	1 15:20	Received: 09)/24/11 10·25	Matrix: Solid	
Results reported on a "dry-weig		73013	Collected. U3/21/1	1 13.20	Neceived. 0	7/24/11 10:23	Watrix. Solid	
		1.1	December 1999	25	D	A	0404	0 1
Parameters	Results —	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	ND mg	Kg DNR	17.4	1	09/29/11 13:30	09/30/11 23:02	2	
Motor Oil Range	ND mg	/kg 🕠	69.5	1	09/29/11 13:30	09/30/11 23:02	64742-65-0	
n-Octacosane (S)	84 %	*	50-150	1	09/29/11 13:30	09/30/11 23:02	630-02-4	
o-Terphenyl (S)	83 %		50-150	1	09/29/11 13:30	09/30/11 23:02	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Meth	od: NWTPH	l-Dx Preparation Me	thod: E	PA 3546			
Diesel Range SG	ND mg	/kg	17.4	1	09/29/11 13:30	10/13/11 08:42	2	
Motor Oil Range SG	ND mg	/kg	69.5	1	09/29/11 13:30	10/13/11 08:42	64742-65-0	
n-Octacosane (S) SG	89 %		50-150	1	09/29/11 13:30	10/13/11 08:42	630-02-4	
o-Terphenyl (S) SG	85 %		50-150	1	09/29/11 13:30	10/13/11 08:42	84-15-1	
Percent Moisture	Analytical Meth	od: ASTM [02974-87					
Percent Moisture	9.8 %		0.10	1		09/28/11 16:12	2	
Sample: BH-106,5.0	Lab ID: 2593	49016	Collected: 09/21/1	1 12:30	Received: 09	9/24/11 10:25	Matrix: Solid	
Results reported on a "dry-weig	ht" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Meth	od: NWTPH	I-Dx Preparation Me	ethod: E	PA 3546			
Diesel Range	246 ma	Kg DNR	81.1	5	09/29/11 13:30	09/30/11 15:25	5	
Mata Oil Dana	4220		20.4	~	00/20/11 10:00			

Date: 10/14/2011 04:02 PM

Motor Oil Range

o-Terphenyl (S)

n-Octacosane (S)

REPORT OF LABORATORY ANALYSIS

324

50-150

50-150

5

5

1320 mg/kg 🧳

82 %

80 %

09/29/11 13:30 09/30/11 15:25 64742-65-0

09/29/11 13:30 09/30/11 15:25 630-02-4

09/29/11 13:30 09/30/11 15:25 84-15-1



Project:	
Described No.	

Avery Landing

Pace Project No.:

259349

Sam	ple:	BH-1	06,5.0

Lab ID: 259349016

Collected: 09/21/11 12:30

Received: 09/24/11 10:25

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel	Analytical Me	thod: NWTPH-	Dx Preparation Me	thod: I	EPA 3546			
Diesel Range SG	127 m	ıg/kg	16.2	1	09/29/11 13:30	10/13/11 09:07		
Motor Oil Range SG	558 m	ıg/kg	64.8	1	09/29/11 13:30	10/13/11 09:07	64742-65-0	
n-Octacosane (S) SG	90 %	,	50-150	1	09/29/11 13:30	10/13/11 09:07	630-02-4	
o-Terphenyl (S) SG	84 %	, D	50-150	1	09/29/11 13:30	10/13/11 09:07	84-15-1	
Percent Moisture	Analytical Me	thod: ASTM D2	2974-87					
Percent Moisture	3.7 %	, D	0.10	1		09/28/11 16:12		

Sample: BH-106, 11.0

Lab ID: 259349017

Collected: 09/21/11 12:45

Received: 09/24/11 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Met	hod: NWTPH-D	x Preparation Me	ethod:	EPA 3546			
Diesel Range	8500 m	g/kg DNC	86.4	5	09/29/11 13:30	09/30/11 15:51		
Motor Oil Range	3170 m	g/kg 🔻	346	5	09/29/11 13:30	09/30/11 15:51	64742-65-0	
n-Octacosane (S)	83 %)	50-150	5	09/29/11 13:30	09/30/11 15:51	630-02-4	
o-Terphenyl (S)	93 %	•	50-150	5	09/29/11 13:30	09/30/11 15:51	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Met	:hod: NWTPH-C	x Preparation Me	ethod:	EPA 3546			
Diesel Range SG	8350 m	g/kg	86.4	5	09/29/11 13:30	10/13/11 21:41		
Motor Oil Range SG	2690 m	g/kg	346	5	09/29/11 13:30	10/13/11 21:41	64742-65-0	
n-Octacosane (S) SG	98 %)	50-150	5	09/29/11 13:30	10/13/11 21:41	630-02-4	
o-Terphenyl (S) SG	107 %)	50-150	5	09/29/11 13:30	10/13/11 21:41	84-15-1	
Percent Moisture	Analytical Met	thod: ASTM D29	974-87					
Percent Moisture	12.2 %)	0.10	1		09/28/11 16:13		

Sample: E	3H-106, 14.5	
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Lab ID: 259349018

Collected: 09/21/11 13:20 Received: 09/24/11 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results I	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method:	NWTPH-Dx	Preparation Me	thod: E	EPA 3546			
Diesel Range	859 mg/kg	DNR	20.0	1	09/29/11 13:30	09/30/11 23:28		
Motor Oil Range	221 mg/kg	V	80.1	1	09/29/11 13:30	09/30/11 23:28	64742-65-0	
n-Octacosane (S)	83 %		50-150	1	09/29/11 13:30	09/30/11 23:28	630-02-4	
o-Terphenyl (S)	84 %		50-150	1	09/29/11 13:30	09/30/11 23:28	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Method:	NWTPH-Dx	Preparation Me	thod: E	EPA 3546			
Diesel Range SG	763 mg/kg		20.0	1	09/29/11 13:30	10/13/11 10:21		
Motor Oil Range SG	188 mg/kg		80.1	1	09/29/11 13:30	10/13/11 10:21	64742-65-0	
n-Octacosane (S) SG	89 %		50-150	1	09/29/11 13:30	10/13/11 10:21	630-02-4	

Date: 10/14/2011 04:02 PM

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Matrix: Solid



ANALYTICAL RESULTS

Collected: 09/21/11 13:20

Received: 09/24/11 10:25

Project:	Avery Landing
Pace Project No.:	259349

Sample: BH-106, 14.5

Results reported on a "dry-weight" basis **Parameters** Results Units Report Limit DF Prepared Analyzed CAS No. Qual **NWTPH-Dx GCS Silica Gel** Analytical Method: NWTPH-Dx Preparation Method: EPA 3546 87 % 09/29/11 13:30 10/13/11 10:21 84-15-1 o-Terphenyl (S) SG 50-150 **Percent Moisture** Analytical Method: ASTM D2974-87 21.9 % Percent Moisture 0.10 09/28/11 16:14 1

Lab ID: 259349018

Lab ID: 259349020

Sample: BH-107, 5.0	Lab ID: 259349019	Collected: 09/20/1	1 14:2	5 Received: 09	0/24/11 10:25 N	latrix: Solid	
Results reported on a "dry-weigl	ht" basis						
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NW	TPH-Dx Preparation Mo	ethod:	EPA 3546			
Diesel Range	ND mg/kg Div	17.6	1	09/29/11 13:30	09/30/11 23:53		
Motor Oil Range	ND mg/kg 🎶	-	1	09/29/11 13:30	09/30/11 23:53	64742-65-0	
n-Octacosane (S)	84 %	50-150	1	09/29/11 13:30	09/30/11 23:53	630-02-4	
o-Terphenyl (S)	82 %	50-150	1	09/29/11 13:30	09/30/11 23:53	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Method: NW	ΓΡΗ-Dx Preparation Mo	ethod:	EPA 3546			
Diesel Range SG	ND mg/kg	17.6	1	09/29/11 13:30	10/13/11 10:46		
Motor Oil Range SG	ND mg/kg	70.5	1	09/29/11 13:30	10/13/11 10:46	64742-65-0	
n-Octacosane (S) SG	91 %	50-150	1	09/29/11 13:30	10/13/11 10:46	630-02-4	
o-Terphenyl (S) SG	85 %	50-150	1	09/29/11 13:30	10/13/11 10:46	84-15-1	
Percent Moisture	Analytical Method: AST	M D2974-87					
Percent Moisture	16.0 %	0.10	1		09/28/11 16:14		

Results reported on a "dry-weigh	ıt" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Me	thod: NWTPH-	Dx Preparation Me	ethod:	EPA 3546			
Diesel Range	ND m	ig/kg DMR	17.1	1	09/29/11 13:30	10/01/11 00:19		
Motor Oil Range		ng/kg 🗸	68.3	1	09/29/11 13:30	10/01/11 00:19	64742-65-0	
n-Octacosane (S)	85 %	, o	50-150	1	09/29/11 13:30	10/01/11 00:19	630-02-4	
o-Terphenyl (S)	84 %	ó	50-150	1	09/29/11 13:30	10/01/11 00:19	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Me	thod: NWTPH-	Dx Preparation Me	ethod:	EPA 3546			
Diesel Range SG	ND m	ng/kg	17.1	1	09/29/11 13:30	10/13/11 12:01		
Motor Oil Range SG	ND m	ng/kg	68.3	1	09/29/11 13:30	10/13/11 12:01	64742-65-0	
n-Octacosane (S) SG	91 %	, 0	50-150	1	09/29/11 13:30	10/13/11 12:01	630-02-4	
o-Terphenyl (S) SG	86 %	ó	50-150	1	09/29/11 13:30	10/13/11 12:01	84-15-1	

Collected: 09/20/11 15:30 Received: 09/24/11 10:25

Date: 10/14/2011 04:02 PM

Sample: BH-107, 18.3

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ANALYTICAL RESULTS

Project:

Avery Landing

Pace Project No.:

259349

Sample: BH-107, 18.3

Lab ID: 259349020

Collected: 09/20/11 15:30

Received: 09/24/11 10:25 M

Matrix: Solid

Results reported on a "dry-weight" basis

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture

14.2 %

0.10

09/28/11 16:15

Sample: BH-108, 5.0

Lab ID: 259349021

Lab ID: 259349022

Collected: 09/21/11 10:20

Received: 09/24/11 10:25 Matrix: Solid

Received: 09/24/11 10:25

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Met	hod: NWTPH-E	x Preparation Me	ethod:	EPA 3546			,
Diesel Range	ND m	g/kg DNZ	17.5	1	09/29/11 13:30	10/01/11 00:44		
Motor Oil Range	ND m		70.1	1	09/29/11 13:30	10/01/11 00:44	64742-65-0	
n-Octacosane (S)	84 %		50-150	1	09/29/11 13:30	10/01/11 00:44	630-02-4	
o-Terphenyl (S)	82 %	•	50-150	1	09/29/11 13:30	10/01/11 00:44	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Met	hod: NWTPH-D	x Preparation Me	ethod:	EPA 3546			
Diesel Range SG	ND m	g/kg	17.5	1	09/29/11 13:30	10/13/11 12:26		
Motor Oil Range SG	ND m	g/kg	70.1	1	09/29/11 13:30	10/13/11 12:26	64742-65-0	
n-Octacosane (S) SG	89 %	,	50-150	1	09/29/11 13:30	10/13/11 12:26	630-02-4	
o-Terphenyl (S) SG	84 %	,	50-150	1	09/29/11 13:30	10/13/11 12:26	84-15-1	
Percent Moisture	Analytical Met	hod: ASTM D29	974-87					
Percent Moisture	14.2 %	•	0.10	1		09/28/11 16:16		

Sample:	BH-108,	12.5	
Doculto :	anariad d	on o "dry woight"	hooi

Results reported on a "dry-weig	ht" basis			•				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Me	thod: NWTPH-D	x Preparation Me	ethod: I	EPA 3546			
Diesel Range	ND m	g/kg DNK	20.9	1	09/29/11 13:30	10/01/11 01:10		
Motor Oil Range	ND m		83.5	1	09/29/11 13:30	10/01/11 01:10	64742-65-0	
n-Octacosane (S)	. 82 %)	50-150	1	09/29/11 13:30	10/01/11 01:10	630-02-4	
o-Terphenyl (S)	81 %)	50-150	1	09/29/11 13:30	10/01/11 01:10	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Me	thod: NWTPH-D	x Preparation Me	ethod: I	EPA 3546			
Diesel Range SG	ND m	ıg/kg	20.9	1	09/29/11 13:30	10/13/11 12:51		
Motor Oil Range SG	ND m	ıg/kg	83.5	1	09/29/11 13:30	10/13/11 12:51	64742-65-0	
n-Octacosane (S) SG	89 %)	50-150	1	09/29/11 13:30	10/13/11 12:51	630-02-4	
o-Terphenyl (S) SG	84 %		50-150	1	09/29/11 13:30	10/13/11 12:51	84-15-1	
Percent Moisture	Analytical Me	thod: ASTM D29	74-87					
Percent Moisture	29.3 %		0.10	1		09/28/11 16:17		

Collected: 09/21/11 10:40

Date: 10/14/2011 04:02 PM

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Sample: BH-109, 6.0	Lab ID: 2593	49023	Collected: 09/	21/11 07:40	Received: 09	9/24/11 10:25 N	Vlatrix: Solid	
Results reported on a "dry-weig	ht" basis							
Parameters	Results	Units	Report Lin	nit DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Meth	od: NWTPI	H-Dx Preparatio	n Method: E	EPA 3546			
Diesel Range	189 mg	/kg DNQ	- 1	6.9 1	09/29/11 13:30	10/01/11 01:36		
Motor Oil Range	584 mg	/kg 🎶	6	7.5 1	09/29/11 13:30	10/01/11 01:36	64742-65-0	
n-Octacosane (S)	88 %		50-1	50 1	09/29/11 13:30	10/01/11 01:36	630-02-4	
o-Terphenyl (S)	85 %		50-1	50 1	09/29/11 13:30	10/01/11 01:36	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Meth	od: NWTPI	H-Dx Preparatio	n Method: E	EPA 3546			
Diesel Range SG	114 mg	/ka	10	3.9 1	09/29/11 13:30	10/13/11 13:16		
Motor Oil Range SG	324 mg	•	6	7.5 1	09/29/11 13:30	10/13/11 13:16	64742-65-0	
n-Octacosane (S) SG	95 %	J	50-1	50 1	09/29/11 13:30	10/13/11 13:16	630-02-4	
o-Terphenyl (S) SG	87 %		50-1	50 1	09/29/11 13:30	10/13/11 13:16	84-15-1	
Percent Moisture	Analytical Meth	od: ASTM I	D2974-87					
Percent Moisture	10.3 %		0	10 1		09/28/11 16:18		
Sample: BH-109, 18.2	Lab ID: 2593	49024	Collected: 09/	21/11 08:30	Received: 09	9/24/11 10:25 I	Matrix: Solid	
Results reported on a "dry-weig Parameters	Results	Units	Report Lin	nit DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Meth	od: NWTPI	H-Dx Preparatio	n Method: E	======================================			
Diesel Range	ND mg	ra DNL	1	8.3 - 1	00/20/11 13:30	10/01/11 03:44		
Motor Oil Range	ND mg			3.3 1		10/01/11 03:44		
WOLD OI Natige	-	/ng 🥡	1			10/01/11 03:44		
n Octacosana (S)	25 %		50_1	50 1			000-02-4	
, ,	85 % 84 %		50-1 50-1					
o-Terphenyl (S)	84 %	od NMTD	50-1	50 1	09/29/11 13:30	10/01/11 03:44		
o-Terphenyl (S) NWTPH-Dx GCS Silica Gel	84 % Analytical Meth		50-1 H-Dx Preparatio	50 1 n Method: E	09/29/11 13:30 EPA 3546	10/01/11 03:44	84-15-1	
o-Terphenyl (S) NWTPH-Dx GCS Silica Gel Diesel Range SG	84 % Analytical Meth ND mg	/kg	50-1 H-Dx Preparatio 1	50 1 n Method: E 8.3 1	09/29/11 13:30 EPA 3546 09/29/11 13:30	10/01/11 03:44 10/13/11 14:06	84-15-1	
n-Octacosane (S) o-Terphenyl (S) NWTPH-Dx GCS Silica Gel Diesel Range SG Motor Oil Range SG	84 % Analytical Meth ND mg ND mg	/kg	50-1 H-Dx Preparatio 1 7	50 1 n Method: E 8.3 1 3.3 1	09/29/11 13:30 EPA 3546 09/29/11 13:30 09/29/11 13:30	10/01/11 03:44 10/13/11 14:06 10/13/11 14:06	84-15-1 64742-65-0	
o-Terphenyl (S) NWTPH-Dx GCS Silica Gel Diesel Range SG Motor Oil Range SG n-Octacosane (S) SG	84 % Analytical Meth ND mg ND mg 94 %	/kg	50-1 H-Dx Preparatio 1 7 50-1	50 1 n Method: E 3.3 1 3.3 1 50 1	09/29/11 13:30 EPA 3546 09/29/11 13:30 09/29/11 13:30 09/29/11 13:30	10/01/11 03:44 10/13/11 14:06 10/13/11 14:06 10/13/11 14:06	84-15-1 64742-65-0 630-02-4	
o-Terphenyl (S) NWTPH-Dx GCS Silica Gel Diesel Range SG Motor Oil Range SG	84 % Analytical Meth ND mg ND mg	/kg	50-1 H-Dx Preparatio 1 7	50 1 n Method: E 3.3 1 3.3 1 50 1	09/29/11 13:30 EPA 3546 09/29/11 13:30 09/29/11 13:30 09/29/11 13:30	10/01/11 03:44 10/13/11 14:06 10/13/11 14:06	84-15-1 64742-65-0 630-02-4	
o-Terphenyl (S) NWTPH-Dx GCS Silica Gel Diesel Range SG Motor Oil Range SG n-Octacosane (S) SG o-Terphenyl (S) SG	84 % Analytical Meth ND mg ND mg 94 %	/kg /kg	50-1 H-Dx Preparatio 1 7 50-1 50-1	50 1 n Method: E 3.3 1 3.3 1 50 1	09/29/11 13:30 EPA 3546 09/29/11 13:30 09/29/11 13:30 09/29/11 13:30	10/01/11 03:44 10/13/11 14:06 10/13/11 14:06 10/13/11 14:06	84-15-1 64742-65-0 630-02-4	
o-Terphenyl (S) NWTPH-Dx GCS Silica Gel Diesel Range SG Motor Oil Range SG n-Octacosane (S) SG o-Terphenyl (S) SG Percent Moisture	Analytical Meth ND mg ND mg 94 % 88 %	/kg /kg	50-1 H-Dx Preparatio 1 7 50-1 50-1	50 1 n Method: E 3.3 1 3.3 1 50 1	09/29/11 13:30 EPA 3546 09/29/11 13:30 09/29/11 13:30 09/29/11 13:30	10/01/11 03:44 10/13/11 14:06 10/13/11 14:06 10/13/11 14:06	84-15-1 64742-65-0 630-02-4 84-15-1	
o-Terphenyl (S) NWTPH-Dx GCS Silica Gel Diesel Range SG Motor Oil Range SG n-Octacosane (S) SG	84 % Analytical Meth ND mg ND mg 94 % 88 % Analytical Meth	/kg /kg od: ASTM l	50-1 H-Dx Preparatio 1 7 50-1 50-1	50 1 n Method: E 3.3 1 3.3 1 50 1 50 1	09/29/11 13:30 EPA 3546 09/29/11 13:30 09/29/11 13:30 09/29/11 13:30 09/29/11 13:30	10/01/11 03:44 10/13/11 14:06 10/13/11 14:06 10/13/11 14:06 10/13/11 14:06 09/28/11 16:19	84-15-1 64742-65-0 630-02-4 84-15-1	
o-Terphenyl (S) NWTPH-Dx GCS Silica Gel Diesel Range SG Motor Oil Range SG n-Octacosane (S) SG o-Terphenyl (S) SG Percent Moisture Percent Moisture	Analytical Meth ND mg ND mg 94 % 88 % Analytical Meth 14.4 %	/kg /kg od: ASTM l	50-1 H-Dx Preparatio 1 7 50-1 50-1 D2974-87	50 1 n Method: E 3.3 1 3.3 1 50 1 50 1	09/29/11 13:30 EPA 3546 09/29/11 13:30 09/29/11 13:30 09/29/11 13:30 09/29/11 13:30	10/01/11 03:44 10/13/11 14:06 10/13/11 14:06 10/13/11 14:06 10/13/11 14:06 09/28/11 16:19	84-15-1 64742-65-0 630-02-4 84-15-1	

Date: 10/14/2011 04:02 PM

Diesel Range

Motor Oil Range

n-Octacosane (S)

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151 mg/kg THE

627 mg/kg

87 %

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18.2

72.8

50-150

09/29/11 13:30 10/03/11 15:48

09/29/11 13:30 10/03/11 15:48 64742-65-0

09/29/11 13:30 10/03/11 15:48 630-02-4



Project:

Avery Landing

Pace Project No.: Sample: BH-110, 5.0

259349

Lab ID: 259349025

Collected: 09/20/11 16:45 Received: 09/24/11 10:25

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual		
NWTPH-Dx GCS	Analytical Met	hod: NWTPH-	Dx Preparation Me	ethod: I	EPA 3546					
o-Terphenyl (S)	86 %	•	50-150	1	09/29/11 13:30	10/03/11 15:48	84-15-1			
NWTPH-Dx GCS Silica Gel	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546									
Diesel Range SG	127 m	g/kg	18.2	1	09/29/11 13:30	10/13/11 14:31				
Motor Oil Range SG	446 m	g/kg	72.8	1	09/29/11 13:30	10/13/11 14:31	64742-65-0			
n-Octacosane (S) SG	98 %		50-150	1	09/29/11 13:30	10/13/11 14:31	630-02-4			
o-Terphenyl (S) SG	91 %)	50-150	1	09/29/11 13:30	10/13/11 14:31	84-15-1			
Percent Moisture	Analytical Met	hod: ASTM D2	2974-87							
Percent Moisture	16.3 %)	0.10	1		09/28/11 16:19				

Sample: BH-110, 16.5	Lab ID: 259349026	Collected: 09/20/11 17:20	Received:	09/24/11 10:25	Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Met	hod: NWTPH-I	Ox Preparation Me	ethod: I	EPA 3546			
Diesel Range	ND m	g/kg DN4C	19.0	1	09/29/11 13:30	10/01/11 04:09		
Motor Oil Range		g/kg 💙	76.1	1	09/29/11 13:30	10/01/11 04:09	64742-65-0	
n-Octacosane (S)	84 %		50-150	1	09/29/11 13:30	10/01/11 04:09	630-02-4	
o-Terphenyl (S)	83 %		50-150	1	09/29/11 13:30	10/01/11 04:09	84-15-1	
NWTPH-Dx GCS Silica Gel	Analytical Met	hod: NWTPH-I	Dx Preparation Me	ethod: I	EPA 3546			
Diesel Range SG	ND m	g/kg	19.0	1	09/29/11 13:30	10/13/11 14:56		
Motor Oil Range SG	ND m	g/kg	76.1	1	09/29/11 13:30	10/13/11 14:56	64742-65-0	
n-Octacosane (S) SG	91 %		50-150	1	09/29/11 13:30	10/13/11 14:56	630-02-4	
o-Terphenyl (S) SG	86 %		50-150	1	09/29/11 13:30	10/13/11 14:56	84-15-1	
Percent Moisture	Analytical Met	hod: ASTM D2	974-87					
Percent Moisture	16.2 %		0.10	1		09/28/11 16:20		

Sample: BH-111, 5.0	Lab ID: 259349027	Collected:	09/22/11 11:10	Received:	09/24/11 10:25	Matrix: Solid
Results reported on a "dry-weight" bas	sis					

Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWI	PH-Dx Preparation Me	ethod: I	EPA 3546			
Diesel Range	53.1 mg/kg ∑ N	16.3	1	09/29/11 13:30	10/01/11 10:07		
Motor Oil Range	125 mg/kg	65.1	1	09/29/11 13:30	10/01/11 10:07	64742-65-0	
n-Octacosane (S)	85 %	50-150	1	09/29/11 13:30	10/01/11 10:07	630-02-4	
o-Terphenyl (S)	83 %	50-150	1	09/29/11 13:30	10/01/11 10:07	84-15-1	

Date: 10/14/2011 04:02 PM

REPORT OF LABORATORY ANALYSIS





Date: 10/14/2011 04:02 PM

ANALYTICAL RESULTS

		,						
Project: Avery Landing	g							
Pace Project No.: 259349	Lab ID. OFO	140007	0-1144- 004	20/44 44.4	0 Desciude 0	0/04/44 40:05	Matrice Callel	
Sample: BH-111, 5.0	Lab ID: 259	349027	Collected: 09/	22/11 11:1	u Received: u	9/24/11 10:25	Vlatrix: Solid	
Results reported on a "dry-weigl					•			
Parameters	Results	Units	Report Lim	nit DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel	Analytical Meth	od: NWTPH-	Dx Preparation	n Method:	EPA 3546			
Diesel Range SG	42.0 mg	ı/kg	16	3.3 1	09/29/11 13:30	10/13/11 15:21		
Motor Oil Range SG	85.7 mg	ı/kg	65	5.1 1	09/29/11 13:30	10/13/11 15:21	64742-65-0	
n-Octacosane (S) SG	93 %		50-1	50 1	09/29/11 13:30	10/13/11 15:21	630-02-4	
o-Terphenyl (S) SG	88 %		50-1	50 1	09/29/11 13:30	10/13/11 15:21	84-15-1	
Percent Moisture	Analytical Meth	od: ASTM D	2974-87					
Percent Moisture	9.3 %		0.	10 1		09/28/11 16:20		
Sample: BH-111, 15.5	Lab ID: 259	240020	Collected: 09/	22/11 11:4	E Passived: 0	9/24/11 10:25 F	Matrix: Solid	
Sample:		343020	Collected. 09/	ZZ/11 11.4	o Received. U	9/24/11 10.25 1	viatrix. Solid	
Parameters	Results	Units	Report Lim	nit DF	Prepared	Analyzed	CAS No.	Qua
NWTPH-Dx GCS	Analytical Meth	od: NWTPH-	Dx Preparation	n Method:	EPA 3546			
Diesel Range	ND mc	1/kg DNR	17	7.7 1	09/29/11 13:30	10/01/11 04:34		
Motor Oil Range	ND mg	. • •,		0.9 1		10/01/11 04:34		
n-Octacosane (S)	82 %	,,,a 🕏	50-1		09/29/11 13:30			
p-Terphenyl (S)	82 %		50-1 50-1			10/01/11 04:34		
NWTPH-Dx GCS Silica Gel	Analytical Meth	od: NWTPH-	Dx Preparation	n Method:	EPA 3546			
Diesel Range SG	ND mg	ı/ka	17	7.7 1	09/29/11 13:30	10/13/11 16:36		
Motor Oil Range SG	ND mg		70	0.9 1	09/29/11 13:30	10/13/11 16:36	64742-65-0	
n-Octacosane (S) SG	124 %	,5	50-1	50 1		10/13/11 16:36		
p-Terphenyl (S) SG	117 %		50-1			10/13/11 16:36		
Percent Moisture	Analytical Meth	od: ASTM D						
	•	IOU. AO HIVI DA						
Percent Moisture	12.1 %		0.	10 1		09/28/11 16:25		
Sample: DUP	Lab ID: 2593	349029	Collected: 09/	20/11 00:0	00 Received: 0	9/24/11 10:25 I	Vlatrix: Solid	
Results reported on a "dry-weigl	ht" basis							
Parameters	Results	Units	Report Lim	nit DF	Prepared	Analyzed	CAS No.	Qua
NWTPH-Dx GCS	Analytical Meth	od: NWTPH-	Dx Preparatio	n Method:	EPA 3546			
Diesel Range	986 mg	I/kg DNR	17	7.9 1	09/29/11 13:30	10/01/11 05:25	;	
Motor Oil Range	95.1 mg	ı/kg ଐ	7	1.5 1	09/29/11 13:30	10/01/11 05:25	64742-65-0	
n-Octacosane (S)	85 %	•	50-1	50 1	09/29/11 13:30	10/01/11 05:25	630-02-4	
o-Terphenyl (S)	85 %		50-1	50 1	09/29/11 13:30	10/01/11 05:25	84-15-1	
					EDA 2540			
WTPH-Dx GCS Silica Gel	Analytical Meth	od: NWTPH-	Dx Preparation	n wethod:	EPA 3046			
	·		•	n ivietnoa: 7.9 1	09/29/11 13:30	10/13/11 17:25	;	
NWTPH-Dx GCS Silica Gel Diesel Range SG Motor Oil Range SG	Analytical Meth 907 mg ND mg	ı/kg 🧻	17		09/29/11 13:30) 10/13/11 17:25) 10/13/11 17:25		

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Project:

Avery Landing

Pace Project No.:

259349

Results reported on a "dry-weight" basis

Parameters R

Sample: DUP

Lab ID: 259349029

g

Units

Analytical Method: ASTM D2974-87

Collected: 09/20/11 00:00

DF

Received: 09/24/11 10:25

Prepared

Matrix: Solid

Qual

CAS No.

NWTPH-Dx GCS Silica Gel

Analytical Method: NWTPH-Dx Preparation Method: EPA 3546

o-Terphenyl (S) SG

89 %

50-150

Report Limit

09/29/11 13:30 10/13/11 17:25 84-15-1

Percent Moisture
Percent Moisture

13.6 %

Results

0.10

09/28/11 16:27

Analyzed





QUALITY CONTROL DATA

Project:

Avery Landing

Pace Project No.:

259349

QC Batch:

OEXT/4419

Analysis Method:

NWTPH-Dx

QC Batch Method:

EPA 3546

Analysis Description:

NWTPH-Dx GCS

Associated Lab Samples:

259349001, 259349002, 259349003, 259349004, 259349005, 259349006, 259349007

METHOD BLANK: 87423

Matrix: Solid

Associated Lab Samples:

259349001, 259349002, 259349003, 259349004, 259349005, 259349006, 259349007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range	mg/kg	ND	16.0	09/28/11 14:46	
Motor Oil Range	mg/kg	ND	64.0	09/28/11 14:46	
n-Octacosane (S)	%	92	50-150	09/28/11 14:46	
o-Terphenyl (S)	%	96	50-150	09/28/11 14:46	

LABORATORY CONTROL SAMPLE: 87424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range	mg/kg	500	432	86	56-124	
Motor Oil Range	mg/kg	500	462	92	50-150	
n-Octacosane (S)	%			85	50-150	
o-Terphenyl (S)	%			95	50-150	

SAMPLE DUPLICATE: 87425

		259305012	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Diesel Range	mg/kg	ND	ND		
Motor Oil Range	mg/kg	. ND	ND	•	
n-Octacosane (S)	%	89	92	7	•
o-Terphenyl (S)	%	90	92	5	

SAMPLE DUPLICATE: 87426

		259349005	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Diesel Range	 mg/kg	880	3170	113	1n
Motor Oil Range	mg/kg	394	1390	112	1n
n-Octacosane (S)	%	79	81	3	
o-Terphenyl (S)	%	85	96	12	



QUALITY CONTROL DATA

Project:

Avery Landing

Pace Project No.:

259349

QC Batch:

OEXT/4435 Analysis Method: NWTPH-Dx

QC Batch Method:

EPA 3546

Analysis Description:

NWTPH-Dx GCS

Associated Lab Samples:

259349008, 259349009, 259349010, 259349011, 259349012, 259349013, 259349014, 259349015, 259349016,

259349017, 259349018, 259349019, 259349020, 259349021, 259349022, 259349023

METHOD BLANK: 87851

Matrix: Solid

Associated Lab Samples:

SAMPLE DUPLICATE: 87853

259349008, 259349009, 259349010, 259349011, 259349012, 259349013, 259349014, 259349015, 259349016,

259349017, 259349018, 259349019, 259349020, 259349021, 259349022, 259349023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range	mg/kg	ND	16.0	09/30/11 13:46	
Motor Oil Range	mg/kg	ND	64.0	09/30/11 13:46	
n-Octacosane (S)	%	78	50-150	09/30/11 13:46	
o-Terphenyl (S)	%	80	50-150	09/30/11 13:46	

LABORATORY CONTROL SAMPLE:	87852					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Diesel Range	mg/kg	400	363	91	56-124	
Motor Oil Range	mg/kg	400	333	83	50-150	
n-Octacosane (S)	%			82	50-150	
o-Terphenyl (S)	%			87	50-150	

Parameter	Units	259372002 Result	Dup Result	RPD	Qualifiers
Diesel Range	mg/kg	ND	ND		
Motor Oil Range	mg/kg	ND	ND		
n-Octacosane (S)	%	82	85	3	
o-Terphenyl (S)	%	80	82	2	

SAMPLE DUPLICATE: 87854					
Parameter	Units	259349017 Result	Dup Result	RPD	Qualifiers
Diesel Range	mg/kg	8500	9190	8	
Motor Oil Range	mg/kg	3170	3550	11	
n-Octacosane (S)	%	83	82	1	
o-Terphenyl (S)	%	93	92	.5	



QUALITY CONTROL DATA

Project:

Avery Landing

Pace Project No.:

259349

QC Batch:

OEXT/4436

Analysis Method:

NWTPH-Dx

QC Batch Method:

EPA 3546

Analysis Description:

NWTPH-Dx GCS

Associated Lab Samples:

259349024, 259349025, 259349026, 259349027, 259349028, 259349029

METHOD BLANK: 87857

Matrix: Solid

Associated Lab Samples:

259349024, 259349025, 259349026, 259349027, 259349028, 259349029

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Diesel Range	mg/kg	ND	16.0	10/01/11 02:53	
Motor Oil Range	mg/kg	ND	64.0	10/01/11 02:53	
n-Octacosane (S)	%	85	50-150	10/01/11 02:53	
o-Terphenyl (S)	%	83	50-150	10/01/11 02:53	

LABORATORY CONTROL SAMPLE:

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Diesel Range	mg/kg	400	373	93	56-124	
Motor Oil Range	mg/kg	400	346	87	50-150	
n-Octacosane (S)	%			86	50-150	
o-Terphenyl (S)	%			89	50-150	

SAMPLE DUPLICATE: 87859

		259349028	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Diesel Range	mg/kg	ND	ND		
Motor Oil Range	mg/kg	ND	ND		
n-Octacosane (S)	%	82	85	1	
o-Terphenyl (S)	%	82	84	2	

SAMPLE DUPLICATE: 87860

		259375011	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Diesel Range	mg/kg	ND ND	ND		
Motor Oil Range	mg/kg	ND	ND		
n-Octacosane (S)	%	84	94	12	
o-Terphenyl (S)	%	83	93	12	





QUALITY CONTROL DATA

Project:

Avery Landing

Pace Project No.:

259349

QC Batch:

OEXT/4520

Analysis Method:

NWTPH-Dx

QC Batch Method:

EPA 3546

Analysis Description:

NWTPH-Dx GCS

Associated Lab Samples:

259349008, 259349009, 259349010, 259349011, 259349012, 259349013, 259349014, 259349015, 259349016,

259349017, 259349018, 259349019, 259349020, 259349021, 259349022, 259349023

METHOD BLANK: 89930

Matrix: Solid

Associated Lab Samples:

259349017, 259349018, 259349019, 259349020, 259349021, 259349022, 259349023

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Diesel Range SG	mg/kg	ND	16.0	10/13/11 00:09	
Motor Oil Range SG	mg/kg	ND	64.0	10/13/11 00:09	
n-Octacosane (S) SG	%	87	50-150	10/13/11 00:09	
o-Terphenyl (S) SG	%	83	50-150	10/13/11 00:09	

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89931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	mg/kg	400	349	87	56-124	
Motor Oil Range SG	mg/kg	400	355	89	50-150	
n-Octacosane (S) SG	%			88	50-150	
o-Terphenyl (S) SG	%			90	50-150	

SAMPLE	DUPL	LICATE:	8

89932

		259349017	Dup		
Parameter	Units	Result	Result	RPD	Qualifiers
Diesel Range SG	mg/kg	8350	8140	3	
Motor Oil Range SG	mg/kg	2690	2670	.6	
n-Octacosane (S) SG	%	98	89	8	
o-Terphenyl (S) SG	%	107	99	7	

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QUALITY CONTROL DATA

Project:

Avery Landing

Pace Project No.:

259349

QC Batch:

OEXT/4522

Analysis Method:

NWTPH-Dx

QC Batch Method:

EPA 3546

Analysis Description:

NWTPH-Dx GCS

Associated Lab Samples:

259349001, 259349002, 259349003, 259349004, 259349005, 259349006, 259349007

METHOD BLANK: 89936

Matrix: Solid

Associated Lab Samples:

259349001, 259349002, 259349003, 259349004, 259349005, 259349006, 259349007

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Diesel Range SG	mg/kg	ND	16.0	10/12/11 23:21	
Motor Oil Range SG	mg/kg	ND	64.0	10/12/11 23:21	
n-Octacosane (S) SG	%	83	50-150	10/12/11 23:21	
o-Terphenyl (S) SG	%	84	50-150	10/12/11 23:21	

LABORATORY CONTROL SAMPLE: 89937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	mg/kg	500	454	91	56-124	
Motor Oil Range SG	mg/kg	500	442	88	50-150	
n-Octacosane (S) SG	%			88	50-150	
o-Terphenyl (S) SG	%			108	50-150	

SAMPLE DUPLICATE: 89938

Parameter	Units	259349005 Result	Dup Result	RPD	Qualifiers
Diesel Range SG	mg/kg	1850	2410	27	
Motor Oil Range SG	mg/kg	581	769	28	
n-Octacosane (S) SG	%	89	93	5	
o-Terphenyl (S) SG	%	101	109	7	



QUALITY CONTROL DATA

Project:

Avery Landing

Pace Project No.:

259349

QC Batch:

OEXT/4523

Analysis Method:

NWTPH-Dx

QC Batch Method:

EPA 3546

Analysis Description:

NWTPH-Dx GCS

Associated Lab Samples:

259349024, 259349025, 259349026, 259349027, 259349028, 259349029

METHOD BLANK: 89939

Matrix: Solid

Associated Lab Samples:

259349024, 259349025, 259349026, 259349027, 259349028, 259349029

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Diesel Range SG	mg/kg	ND	16.0	10/12/11 22:33	
Motor Oil Range SG	mg/kg	ND	64.0	10/12/11 22:33	
n-Octacosane (S) SG	%	91	50-150	10/12/11 22:33	
o-Terphenyl (S) SG	%	88	50-150	10/12/11 22:33	

LABORATORY CONTROL SAMPLE:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	mg/kg	400	393	98	56-124	
Motor Oil Range SG	mg/kg	400	386	96	50-150	
n-Octacosane (S) SG	%			94	50-150	
o-Terphenyl (S) SG	%			94	50-150	

SAMPLE DUPLICATE: 89941

Parameter	Units	259349028 Result	Dup Result	RPD	Qualifiers
Diesel Range SG	mg/kg	ND	ND		
Motor Oil Range SG	mg/kg	ND	ND		
n-Octacosane (S) SG	%	124	94	33	
o-Terphenyl (S) SG	%	117	88	33	



QUALITY CONTROL DATA

Project:

Avery Landing

Pace Project No.:

259349

QC Batch:

PMST/1833

Analysis Method:

ASTM D2974-87

RPD

QC Batch Method:

ASTM D2974-87

Analysis Description:

Dry Weight/Percent Moisture

Associated Lab Samples:

SAMPLE DUPLICATE: 87502

Parameter

259372001 Result

Dup Result

Qualifiers

Percent Moisture

%

17.3

17.2

.2

SAMPLE DUPLICATE: 87503

Units

Units

259349006 Result

Dup Result

RPD

4

Qualifiers

Parameter Percent Moisture

%

12.9

12.4





QUALITY CONTROL DATA

Project:

Avery Landing

Pace Project No.:

259349

QC Batch:

PMST/1834

Analysis Method:

ASTM D2974-87

QC Batch Method:

ASTM D2974-87

Analysis Description:

Dry Weight/Percent Moisture

Associated Lab Samples:

259349009, 259349010, 259349011, 259349012, 259349013, 259349014, 259349015, 259349016, 259349017, 259349018, 259349019, 259349020, 259349021, 259349022, 259349023, 259349024, 259349025, 259349026,

259349027

SAMPLE DUPLICATE: 87724

259386001 Result

Dup Result

RPD

RPD

Qualifiers

Percent Moisture

%

Units

Units

44.7

41.2

8

SAMPLE DUPLICATE: 87725

Parameter

259349022 Result

Dup Result

Qualifiers

Parameter Percent Moisture

%

29.3

28.7

2



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QUALITY CONTROL DATA

Project:

Avery Landing

Pace Project No.:

259349

QC Batch:

PMST/1835

Analysis Method:

ASTM D2974-87

RPD

QC Batch Method:

ASTM D2974-87

Analysis Description:

Dry Weight/Percent Moisture

Associated Lab Samples:

259349028, 259349029

SAMPLE DUPLICATE: 87726

259349028 Result

Dup Result

Qualifiers

Percent Moisture

%

Units

Units

12.1

13.4

10

SAMPLE DUPLICATE: 87727

Parameter

Parameter

259375001 Result

Dup Result

RPD Qualifiers

Percent Moisture

%

10.6

11.7

10

Date: 10/14/2011 04:02 PM





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QUALIFIERS

Project:

Avery Landing

Pace Project No.:

259349

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

1n RPD value was outside control limits due to sample inhomgeniety (rocky sample matrix.)

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

Date: 10/14/2011 04:02 PM



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

Avery Landing

Pace Project No.:

259349

289349002 BH-101, 12.2 EPA 3546 OEXTIA419 NWTPH-DX GCSV/2929 289349003 BH-102, 0.6 EPA 3546 OEXTIA419 NWTPH-DX GCSV/2929 289349004 BH-102, 13.5 EPA 3546 OEXTIA419 NWTPH-DX GCSV/2929 289349006 BH-103, 6.0 EPA 3546 OEXTIA419 NWTPH-DX GCSV/2929 289349007 BH-103, 12.5 EPA 3546 OEXTIA419 NWTPH-DX GCSV/2929 289349008 BH-103, 14.5 EPA 3546 OEXTIA419 NWTPH-DX GCSV/2929 289349009 BH-103, 16.5 EPA 3546 OEXTIA435 NWTPH-DX GCSV/2937 289349010 BH-104, 5.0 EPA 3546 OEXTIA435 NWTPH-DX GCSV/2937 289349013 BH-105, 5.0 EPA 3546 OEXTIA435 NWTPH-DX GCSV/2937 289349014 BH-105, 5.0 EPA 3546 OEXTIA435 NWTPH-DX GCSV/2937 289349015 BH-105, 12.5 EPA 3546 OEXTIA435 NWTPH-DX GCSV/2937 289349016 <th< th=""><th>Lab ID</th><th>Sample ID</th><th>QC Batch Method</th><th>QC Batch</th><th>Analytical Method</th><th>Analytical Batch</th></th<>	Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
Page	259349001	BH-101, 6.0	EPA 3546	OEXT/4419	NWTPH-Dx	GCSV/2929
293349004 BH-102, 10.5 EPA 3546 OEXTM419 NWTPH-DX GCSV/2929 293349008 BH-103, 13.6 EPA 3546 OEXTM419 NWTPH-DX GCSV/2929 293349008 BH-103, 12.5 EPA 3546 OEXTM419 NWTPH-DX GCSV/2929 293349008 BH-103, 12.5 EPA 3546 OEXTM419 NWTPH-DX GCSV/2929 293349008 BH-103, 13.4 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 293349009 BH-103, 13.5 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 293349010 BH-104, 5.0 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 293349011 BH-104, 12.0 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 293349011 BH-105, 5.0 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349013 BH-105, 12.5 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349014 BH-105, 12.5 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349015 BH-106, 15.5 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349016 BH-106, 15.5 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349016 BH-106, 10.5 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349016 BH-106, 10.5 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349019 BH-107, 5.0 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349020 BH-107, 5.0 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349020 BH-107, 5.0 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349021 BH-108, 5.0 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349023 BH-108, 5.0 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349023 BH-109, 1.2 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349023 BH-109, 1.2 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349023 BH-109, 1.2 EPA 3546 OEXTM435 NWTPH-DX GCSV/2937 259349023 BH-101, 1.5 EPA 3546 OEXTM435 NWTPH-DX GCSV/2930 259349023 BH-101, 1.5 EPA 3546 OEXTM435 NWTPH-DX GCSV/2930 259349023 BH-101, 1.2 EPA 3546 OEXTM4	259349002	BH-101, 12.2	EPA 3546	OEXT/4419	NWTPH-Dx	GCSV/2929
293349005	259349003	BH-102, 6.0	EPA 3546	OEXT/4419	NWTPH-Dx	GCSV/2929
293349005	259349004	BH-102, 9.0	EPA 3546	OEXT/4419	NWTPH-Dx	GCSV/2929
BH-103, 12.5 EPA 3546 OEXTH419 MWTPH-Dx GCSV/2929	259349005		EPA 3546	OEXT/4419	NWTPH-Dx	GCSV/2929
BH-103, 12.5 EPA 3546 OEXTH419 MWTPH-Dx GCSV/2929	259349006	BH-103, 6.0	EPA 3546	OEXT/4419	NWTPH-Dx	GCSV/2929
289349009 BH-103, 18.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSW/2937 289349010 BH-104, 12.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSW/2937 289349011 BH-104, 12.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSW/2937 289349012 BH-105, 5.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSW/2937 289349014 BH-105, 12.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSW/2937 289349015 BH-106, 15.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSW/2937 289349017 BH-106, 5.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSW/2937 289349017 BH-106, 11.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSW/2937 289349019 BH-107, 5.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSW/2937 289349021 BH-108, 5.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSW/2937 289349023 BH-109, 5.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSW/2937 289349023 <th< td=""><td>259349007</td><td></td><td>EPA 3546</td><td>OEXT/4419</td><td>NWTPH-Dx</td><td>GCSV/2929</td></th<>	259349007		EPA 3546	OEXT/4419	NWTPH-Dx	GCSV/2929
289349010 BH-104, 5.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349011 BH-104, 16.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349013 BH-105, 5.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349014 BH-105, 12.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349015 BH-105, 12.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349016 BH-105, 18.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349017 BH-106, 11.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349018 BH-106, 11.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349019 BH-106, 11.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349019 BH-107, 5.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349019 BH-107, 5.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 28934902 BH-108, 12.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 28934902 BH-109, 6.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 28934902 BH-109, 6.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 28934902 BH-108, 12.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 28934902 BH-101, 15.5 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 28934902 BH-103, 13.4 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 28934902 BH-103, 14.5 EPA 3546 OEXT/4430 NWTPH-Dx GCSV/2940 28934900 BH-103, 16.5 EPA 3546 OEXT/44520 NWTPH-Dx GCSV/2982 28934900 BH-103, 16.5 EPA 3546 OEXT/4520 NWTPH-Dx GCSV/2983	259349008	BH-103, 13.4	EPA 3546	OEXT/4435		GCSV/2937
289349011 BH-104, 12.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349012 BH-104, 16.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349013 BH-105, 15.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349014 BH-105, 16.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349016 BH-108, 16.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349016 BH-106, 11.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349017 BH-106, 11.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349018 BH-106, 14.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349019 BH-107, 15.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349019 BH-107, 18.3 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 28934902 BH-107, 18.3 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 28934902 BH-108, 12.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 28934902 BH-109, 18.2 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 28934902 BH-101, 15.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2940 289349026 BH-110, 5.0 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 289349027 BH-108, 12.0 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 289349026 BH-110, 16.5 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 289349027 BH-111, 15.5 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 289349028 BH-101, 16.5 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 289349029 BH-101, 16.5 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 289349020 BH-101, 16.5 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 289349020 BH-101, 16.5 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 289349000 BH-102, 0.0 EPA 3546 OEXT/4432 NWTPH-Dx GCSV/2940 289349001 BH-104, 16.0 EPA 3546 OEXT/4452 NWTPH-Dx GCSV/2940 289349002 BH-101, 16.5 EPA 3546 OEXT/4452 NWTPH-Dx GCSV/2940 289349003 BH-102, 0.0 EPA 3546 OEXT/4522 NWTPH-Dx GCSV/2940 289349004 BH-103, 16.5 EPA 3546 OEXT/4522 NWTPH-Dx GCSV/2982 289349009 BH-103, 16.5 EPA 3546 OEXT/4520 NWTPH-Dx GCSV/2982 289349009 BH-103, 16.5 EPA 3546 OEXT/4520 NWTPH-Dx GCSV/2983 289349001 BH-104, 16.5 EPA 3546 OEXT/4520 NWTPH-Dx GCSV/2983 289349001 BH-104, 16.5 EPA 3546 OEXT/4520 N	259349009		EPA 3546	OEXT/4435	NWTPH-Dx	
289349012 BH-104, 16.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349013 BH-105, 5.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349014 BH-105, 12.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349015 BH-106, 10.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349017 BH-108, 11.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349018 BH-106, 14.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349019 BH-107, 5.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349020 BH-107, 18.3 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349021 BH-108, 5.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349022 BH-109, 6.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349023 BH-109, 8.0 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 289349026 <th< td=""><td>259349010</td><td></td><td>EPA 3546</td><td>OEXT/4435</td><td>NWTPH-Dx</td><td>GCSV/2937</td></th<>	259349010		EPA 3546	OEXT/4435	NWTPH-Dx	GCSV/2937
289349013 BH-105, \$.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349014 BH-105, \$1.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349015 BH-106, \$1.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349016 BH-106, \$1.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349017 BH-106, \$1.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349018 BH-107, \$1.5 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349020 BH-107, \$1.3 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349021 BH-108, \$0.0 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349022 BH-108, \$1.2 EPA 3546 OEXT/4435 NWTPH-Dx GCSV/2937 289349024 BH-109, \$1.2 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 289349025 BH-101, \$1.5 EPA 3546 OEXT/4436 NWTPH-Dx GCSV/2940 289349027	259349011	BH-104, 12.0	EPA 3546	OEXT/4435	NWTPH-Dx	GCSV/2937
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·	259349016	BH-106,5.0	EPA 3546	OEXT/4520	NWTPH-Dx	GCSV/2983
259349018 BH-106, 14.5 EPA 3546 OEXT/4520 NWTPH-Dx GCSV/2983	259349017	BH-106, 11.0	EPA 3546	OEXT/4520	NWTPH-Dx	GCSV/2983
	259349018	BH-106, 14.5	EPA 3546	OEXT/4520	NWTPH-Dx	GCSV/2983

Date: 10/14/2011 04:02 PM

REPORT OF LABORATORY ANALYSIS





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

Avery Landing

Pace Project No.:

259349

289349019 BH-107, 5.0 EPA 3546 OEXT/4520 NWTPH-Dx GCSV/2983 289349020 BH-108, 5.0 EPA 3546 OEXT/4520 NWTPH-Dx GCSV/2983 289349021 BH-108, 5.0 EPA 3546 OEXT/4520 NWTPH-Dx GCSV/2983 289349023 BH-109, 6.0 EPA 3546 OEXT/4520 NWTPH-Dx GCSV/2983 289349024 BH-109, 18.2 EPA 3546 OEXT/4523 NWTPH-Dx GCSV/2981 289349025 BH-101, 16.5 EPA 3546 OEXT/4523 NWTPH-Dx GCSV/2981 289349026 BH-111, 16.5 EPA 3546 OEXT/4523 NWTPH-Dx GCSV/2981 289349027 BH-111, 15.5 EPA 3546 OEXT/4523 NWTPH-Dx GCSV/2981 289349029 DUP EPA 3546 OEXT/4523 NWTPH-Dx GCSV/2981 289349029 BH-101, 6.0 ASTM D2974-87 PMST/1833 NWTPH-Dx GCSV/2981 289349029 BH-102, 6.0 ASTM D2974-87 PMST/1833 ASTM D2974-87 PMST/1833 28934903	Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
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289349029 DUP EPA 3546 OEXT/4523 NWTPH-Dx GCSV/2981 289349001 BH-101, 6.0 ASTM D2974-87 PMST/1833 PMST/1834 PMST/1833 PMST/1833 PMST/1834 PMST/183	259349027	BH-111, 5.0	EPA 3546	OEXT/4523	NWTPH-Dx	GCSV/2981
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	259349027	BH-111, 5.0	ASTM D2974-87			
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	259349029	DUP	ASTM D2974-87	PMST/1835		

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT, All relevant fields must be completed accurately.

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Pace Analytical

Pace Project No./ Lab I.D. DRINKING WATER (N/A) Samples intact Z SAMPLE CONDITIONS 0OTHER (() (NVA) Custody Sealed Cooler Z (\mathcal{T}) ICB (ANA) Received on GROUND WATER Residual Chlorine (Y/N) 7 30 Jemp in 'C Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) TIME 1027 1027 Site Location STATE 192411 NPDES DATE UST DATE Signed (MM/DD/YY): 好か ラチ ACCEPTED BY / AFFILIATION といるとうと \times R. Tall Market TN/A Analysis Test Other lonerlieM Preservatives COSSEN 2 HOBN НСІ Invoice Information: PRINT Name of SAMPLER: WILL CL Company Name: ONH Reference:
Pace Project
Manager:
Pace Profile #; -SIGNATURE OF SAMPLERAGE 32 01 39 Pace Quota 'os'H Section C 102N Attention: Unpreserved 게 Address # OF CONTAINERS SAMPLER NAME AND SIGNATURE haila, more in @ amapedo 953 められる SAMPLE TEMP AT COLLECTION 00 DATE 10:20 いろど 5.20 04:20 12:55 8 9:50 M. 10 712 17:30 いいと H an wellen bach できるとは COMPOSITE 10000 9024 1,122711 97774 952M 是多 Wirest P 11/2/1 109 10910100 DATE COLLECTED S. Judulany B. RELINGUISHED BY I AFFILIATION TIME Athor Co COMPOSITE START DATE Required Project Information; グル (G=GRAB C=COMP) SAMPLE TYPE . 用限企业 urchase Order No. 行り Project Number: Project Name: MATRIX CODE Section B OFFICIENT Report To: Copy To: 328 O 13 PAR SP PO Matrix Codes Drinking Water Water Waste Water maile moreira Quunc No IX Product SolfSolid Oil Wipe Air Tissun Other 34 12.0 ADDITIONAL COMMENTS 16.5 火をといる 0 クグ 0,0 (A-Z, 0-91,-) Sample IDs MUST BE UNIQUE つ シ Phone: Fax: 70 GIN. Requested Dup Date/TAT: SAMPLEID Required Client Information Section A Required Clent Information: 不受け 107 こった , de るう。土 703 0 102 3 2 0 (O) - Hg があれ ^{3,00} (0.00 ا :± Section D Company: # MBTI 10 æ

Important Note: By signing this form you are eccepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any involves not part within 30 days

F-ALL-Q-020rev.07, 15-May-2001

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CHAIN-OF-CUSTODY / Analytical Request Document

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Face Analytical

The Chain-of-Custody is a LEGAL DOCUMENT, All relevant fields must be completed accurately.

Pace Project No./ Lab I.D. DRINKING WATER SAMPLE CONDITIONS 00000 OTHER Same. GROUND WATER Residual Chlorine (Y/N) Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) TIME Site Location STATE NPDES UST ひ土 ACCEPTED BY / AFFILIATION (M) # feeT slaylsnA 1 H /A Other Methanol Preservatives COSSEN HOBN HCI Company Name: [€]ONH Pace Ouote Reference: Pace Project *OSZH Manager: Pace Profile #: Section C Unpreserved HE Address # OF CONTAINERS haila, moreina@ amaporto ひじったろ SAMPLE TEMP AT COLLECTION 11/23/p ででで DATE 5.20 7:2 7:25 びあ R. 20 10,70 10'46 7.60 9724 15:20 天天 95.38 mag できるが COMPOSITE 19274 200 9/2/2 10/2/VII 9/22/VII 9720 601 回回回 DATE ANEC COLLECTED RELINQUISHED BY / AFFILIATION TIME かががく While water back COMPOSITE DATE Required Project Information: (G=GRAB C=COMP) SAMPLE TYPE Jurchase Order No Project Number: Project Name: (see any codes to left) MATRIX CODE Section B Report To: Copy To: ¥¥¥68° ¥¥85° € Matrix Codes Ortnking Water Water Waste Water Product Soil/Solid No. mailia im breira a a uno Air Tissus Other % ₹5 ADDITIONAL COMMENTS 18.1 600 Univers (A-Z, 0-97,-) Sample IDs MUST BE UNIQUE 0,3 S O シ るながらとなる 0 3,0 SAMPLEID 14-14-15-20 GB Section A Required Client Information: Required Clent Information 中型が た01-49 <u>8</u> At - 128 2 107-40 84-105 -105 お下一名 対・世 - 10g/ Requested Due D Section D Company: Addross: Email To: ITEM # m Ţ (C) 4.

Important Note: By signing this form you are accepting Race's NET 30 day payment forms and agments to late charges of 1,5% per month for any involves not part writin 30 days.

F-ALL-Q-020rev.07, 15-May-2007

(NVA)

(N/A) Sealed Cooler

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DATE Signed (MM/DD/YY);

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SAMPLER NAME AND SIGNATURE

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CHAIN-OF-CUSTODY / Analytical Request Document

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Pace Analytical

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39 Pace Project No./ Lab la. P\$9e DRINKING WATER Samples Intact Z SAMPLE CONDITIONS ω OTHER SE blow Custody Sealed Cooler (Ynt) 0 Z ŏ F-411 . n. 020rau 07 ICO (NIN) · E. GROUND WATER Received on W Residual Chlorine (Y/N) 3.0 O* ni qmoT Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) TIME 13.00 E Site Location STATE 047年 NPDES DATE UST Suth Wave PAR Welzen hac (MM/DD/YY): ACCEPTED BY / AFFILIATION MO - +13 | JeeT alaylanA | N/A Other Important Note: By signary this form you ere accepting Pace's NET 30 day parment terms and agreeing to late charbes of 1,5% per month for any invoices not paid within 30 days Methanol Preservatives ^EO²S²BN HOBN HCI Invoice information: [₹]ONH Company Name Pate Quote Reference: Pate Project Manager: "OS"H **を**325 ace Profile # Section C Unpreserved TIME Address: # OF CONTAINERS SAMPLER NAME AND SIGNATURE SIGNATURE of SAMPLER: PRINT Name of SAMPLER: haila, moreing compoced 30000 13. Ch SAMPLE TEMP AT COLLECTION Whole watre hach Amer 9/23/1 DATE 17:20 002411 0:1 ジェニースペカ Shi3111102/10 W Z できると COMPOSITE 9/20/r d (72 24) 00 いたわしるこ DATE COLLECTED Sacredulary & RELINQUISHED BY / AFFILIATION 011 TIME かったが COMPOSITE DATE Required Project Information: ※3年9月 O ラし (G=GRAB C=COMP) SAMPLE TYPE Surchase Order No. 厂 Project Number (see valid codes to left) MATRIX CODE Project Name: OFIGINAL Section B Report To: MATRIX / CODE Matrix Codes Drinking Water Wator Waste Water Maila Moreira Quinac Product Sol/Solid Oil Wipe Air Tissue Other RH-111 15,5 ADDITIONAL COMMENTS GOD WINE S. 0 (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE 50 MS/MSI Phone 24-14-1-10 | 90 Requested Due Date/TAT: サマーで表め SAMPLEID Sistians Section A Required Client Information: Required Client Information 不受が のドノとい BH - 110 111-48 Section D 150 Company: Address: 10 7 5 # MaTI w ω සා a

Sample Container Count

2912491 Comments Face Analytical Transmission Trip Blank? BP2S WGFU WGKU AG1H AG1U BG1H BP1U BP2U BP3U BP2N CLIENT: AMEC VG9H 3 Sample Line Item COC ID# 0 *** 2 SV. ç.> ~3 ហ ယ 0

AG114 1 liter HCL amber glass	BP2S 500mL H2SO4 plastic	JGFU 40z unpreserved amber wide
AG1U Titer unpreserved amber glass	BP2U 500mL unpreserved plastic	R terra core kit
AG2S 500mL H2SO4 amber glass	BP2Z 500mL NaOH, Zn Ac	U Summa Can
AG2U 500mL unpreserved amber glass	BP3C 250mL NaOH plastic	VG9H 40mL HCL clear vial
AG3S 250mL H2SO4 amber glass	BP3N 250mL HNO3 plastic	VG9T 40mL Na Thio. clear vial
BG1H 1 liter HCL clear glass	BP3S 250mL H2SO4 plastic	VG9U 40mL unpreserved clear vial
BG1U 1 liter unpreserved glass	BP3U 250mL unpreserved plastic	VG9W 40mL glass vial preweighted (EPA 5035)
BP1N 1 liter HNO3 plastic	DG9B 40mL Na Bisulfate amber vial	VSG Headspace septa vial & HCL
BP1S 1 liter H2SO4 plastic	DG9H 40mL HCL amber voa vial	WGFU 4oz clear soil jar
BP1U 1 liter unpreserved plastic	DG9M 40mL MeOH clear vial	WGFX 402 wide jar w/hexane wipe
BP1Z 1 liter NaOH, Zn, Ac	DG9T 40mL Na Thio amber vial	ZPLC Ziploc Bag
BP2N 500mL HNO3 plastic	DG9U 40mL unpreserved amber vial	- Andrews (Physics) is connected as the contraction of the contraction
BP20 500mL NaOH plastic	Wipe/Swab	

Sample Container Count

CLIENT: AMCC

COC PAGE 2 of 3

Face Analytical was cureen over Trip Blank? No VG9H AG1H AG1U BG1H BP1U BP2U BP3U BP2N BP2S WGFU WGKU Sample Line Item 9 --- $\overline{\zeta}$ ග Ç) C√1 3 ₹. ın ω

AG1H 1 liter HCL amber glass	BP2S 500mL H2SO4 plastic	JGFU 40z unpreserved amber wide
AG1U filter unpreserved amber glass	BP2U 500mL unpreserved plastic	R terra core kit
AG2S 500mt, H2SO4 amber glass	BP2Z 500mL NaOH, Zn Ac	U Summa Can
AG2U 500mL unpreserved amber glass	BP3C 250mL NaOH plastic	VG9H 40mL HCL clear vial
AG3S 250mL H2SO4 amber glass	BP3N 250mL HNO3 plastic	VG9T 40mL Na Thio, clear vial
BG1H 1 liter HCL clear glass	BP3S 250mL H2SO4 plastic	VG9U 40mL unpreserved clear vial
BG1U 1 liter unpreserved glass	BP3U 250mL unpreserved plastic	VG9W 40mL glass vial preweighted (EPA 5035)
BP1N 1 liter HNO3 plastic	DG9B 40mL Na Bisulfate amber vial	VSG Headspace septa vial & HCL
BP1S 1 liter H2SO4 plastic	DG9H 40mL HCL amber voa vial	WGFU 4oz clear soil jar
BP1U 1 filer unpreserved plastic	DG9M 40mL MeOH clear vial	WGFX 402 wide jar w/hexane wipe
BP1Z 1 liter NaOH, Zn, Ac	DG9T 40mL Na Thio amber vial	ZPLC Ziploc Bag
BP2N 500mL HNO3 plastic	DG9U 40mL unpreserved amber vial	mande y personal mentale y to a de de descripción de la descripción de la descripción de descrip
RP20 Submi NaOH plastic	Wipe/Swab	

Sample Container Count

CLIENT: AMEC
coc PAGE 3 of 3

Face Analytical*

Comments Trip Blank? BP2S WGFU WGKU W. AG1U BG1H BP1U BP2U BP3U BP2N AG1H VG9H Sample Line Item 2 ş..... Ş ÇD 0 Φ ϖ

AG1H 1 liter HCL amber glass	BP2S	BP2S 500mL H2SO4 plastic	JGFU 40z unpreserved amber wide
AG1U Iliter unpreserved amber glass	BP2U	BP2U 500mL unpreserved plastic	P lerra core kii
AG2S 500mL H2SO4 amber glass	BP2Z	BP2Z 500mL NaOH, Zn Ac	U Summa Can
AG2U 500mL unpreserved amber glass	BP3C	BP3C 250mL NaOH plastic	VG9H 40mL HCL clear vial
AG3S 250mL H2SO4 amber glass	BP3N	BP3N 250mL HNO3 plastic	VG9T 40mL Na Thio. clear vial
BG1H 1 liter HCL clear glass	BP3S	BP3S 250mL H2SO4 plastic	VG9U 40mL unpreserved clear vial
BG1U 1 liter unpreserved glass	BP3U	BP3U 250mL unpreserved plastic	VG9W 40mL glass vial preweighted (EPA 5035)
BP1N 1 liter HNO3 plastic	B650	DG9B 40mL Na Bisulfate amber vial	VSG Headspace septa vial & HCL
BP1S 1 liter H2SO4 plastic	H690	DG9H 40mL HCL amber voa vial	WGFU 4oz clear soil jar
BP1U 1 liter unpreserved plastic	DG9M	DG9M 40mL MeOH clear vial	WGFX 402 wide jar w/hexane wipe
BP1Z 1 liter NaOH, Zn, Ac	T690	DG9T 40mL Na Thio amber vial:	ZPLC Ziploc Bag
BP2N 500mL HNO3 plastic	DGSO	DG9U 40ml, unpreserved amber vial	employeement, _{see a} construction and specific model. A structure of the section
BP2O 500mL NaOH plastic	technol	Wipe/Swab	

	Sample Cor	ndition Upon Receipt	
Pace Analytical Client Name	~: A ~	NEC Project # 259349	
Onent Name	e	Tiojectif 231311	
Courier: M Fed Ex UPS USPS Clie Tracking #: 7952 2235 5370, 541		ial Pace Other	
Custody Seal on Cooler/Box Present: Ye	. /	eals intact: Yes No	
Packing Material: Bubble Wrap Bubb	le Bags 🔲 Non	oe 🗌 Other Temp, Blank Yes No	
Thermometer Used 132013 6 101731962 0 2260	99 Type of Ice: (V		
Cooler Temperature 4.3c, 3.92 Temp should be above freezing s 6°C	Biological Tiss	sue is Frozen: Yes No Date and Initials of person examining contents:	
Chain of Custody Present:	N√es □No □	DNA 1.	
Chain of Custody Filled Out:	SexYes □1±0 □]N/A 2.	
Chain of Custody Relinquished:	ØYes □No □	DN/A 3.	
Sampler Name & Signature on COC:	Eres ONO O]NA 4.	
Samples Arrived within Hold Tirne:	MaYes □No □	DN/A 5.	
Short Hold Time Analysis (<72hr):	□Yes V Ffo, □	IN/A 6.	
Rush Turn Around Time Requested:	Dyes BY60 D	DNA 7.	
Follow Up / Hold Analysis Requested:	SeYes □No □	INA 8. DX on held for BH-103, 13.4 & BH-106, 11.0	0
Sufficient Volume:	DY es DNo D	3.V/A 9.	
Correct Containers Used:	BKes □110 □	DIVA 10. NOT PACE Seattle provided	
-Pace Containers Used:	□Yes IDNo □	AME	0
Containers Intact:	□Yes Q /lo □	and 11. 1 of 3 racyd broken for BH-III, 15.5 transi	ferred
Filtered volume received for Dissolved tests	□Yes □No 💆	INVA 12.	anoth
Sample Labels match COC:	□Yes N/o □	13.000 has the time of 1020 for BH-103 lbm/au 16.5 ? 1720 for BH-119, 165, The container	uces.
-Includes date/time/ID/Analysis Matrix:	<u> </u>	2 10 18 20 18 18 18 18 18 18 18 18 18 18 18 18 18	
All containers needing preservation have been checked.	□Yes □No 🗓	12 Nas the time of 1015 for BH-103,165 9	
All containers needing preservation are found to be in compliance with EPA recommendation.	□Yes □No 😉	1715 for BH-110, 16.5	
Exceptions; VOA, coliform, TOC, ONG		Initial when Lot # of added completed preservative	
Samples checked for dechlorination:	□Yes □No (\$	Brita 15.	
Headspace in VOA Vials (>6mm):	Met 19 de Marian i mantano di internati internati in di international de companya de la companya de la companya	5WA 16.	
Trip Blanks Present:		40A 17.	
Trip Blank Custody Seals Present		ANA	
Pace Trip Blank Creation Date:			
Client Notification/ Resolution: Person Contacted:	n.	Field Data Required? Y / N rate/Time:	
Comments/ Resolution:	\$.J.\$	rate/Time:	
- Committee of the Comm			
Project Manager Review:	NB	Dat 69/26/11	

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp. incorrect containers)

Andy Brownfield - RE: Avery Landing samples received saturday at Pace Seattle

From:

"Moreira, Naila" < Naila. Moreira@amec.com>

To:

Andy Brownfield <Andy.Brownfield@pacelabs.com>, "Welzenbach, Wilhelm" <w...

Date:

9/26/2011 11:00 AM

Subject: RE: Avery Landing samples received saturday at Pace Seattle

Hi Jyothi,

Thanks for the email. We will want to hold the samples until after we receive results from you . What is the hold time for TPH?

Please place BH-103 12.5 on hold instead of BH-106 11.0. We would like to have BH-106 11.0 analyzed.

Willy will let you know regarding the sample times for BH-103 and BH-110.

Thanks,

Naila

From: Andy Brownfield [mailto:Andy.Brownfield@pacelabs.com]

Sent: Monday, September 26, 2011 1:27 PM **To:** Moreira, Naila; Welzenbach, Wilhelm

Subject: Avery Landing samples received saturday at Pace Seattle

Hi Naila, Will,

We received your samples on Saturday at Pace Seattle.

Few things to clarify and note.

The std turn for reporting is 10 working days and there are two samples on hold on the COC. Please advise if these samples are intended for testing after the reporting? We can always extract and hold the samples to ensure extraction within hold time.

Also, for BH-111 15.5, one of the jars was received broken, however we have enough volume to do Dx, MS/MSD on it.

Two samples have different times of sampling on the bottles when compared to the COC. Please advise which time to use?

BH-103 16.5 COC reads 10.20, container reads 10.15

BH-110 16.5 COC reads 17.20, container reads 17.15

Also, Andy Brownfield is your project manager, and currently she is on maternity leave. My name is Jyothi and I am working on her projects at the moment. I am using Andys email for easy tracking for her.

Thank you,